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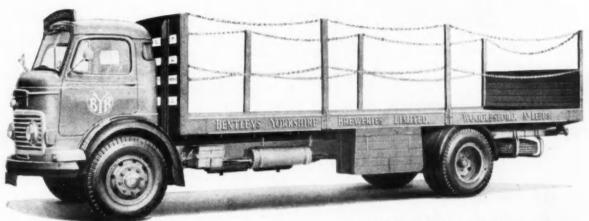
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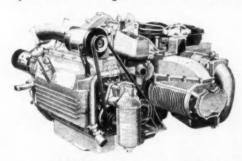
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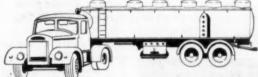
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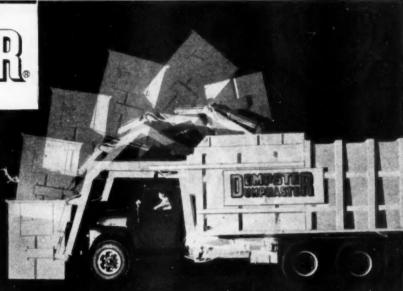


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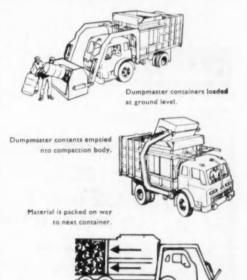
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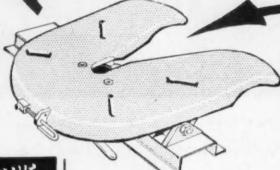
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The Devil I Know . . .

BASICALLY unchanged, despite nationalization and denationalization, since 1933, the law of carriers' licensing is today under severe fire; as severe, perhaps, as it has ever experienced. The three-licence system which the Salter Committee envisaged, and which was subsequently adopted in the 1933 Road and Rail Traffic Act, might have been suitable for the period in which it was introduced but, over 28 years afterwards, it seems fair to question whether it is the best that can be done for present-day and future conditions.

The 1933 Act had a distinct rail-protectionist theme running through it, but now the railways are to be relieved of the worst of their debt burden and of their common carrier obligations fresh thinking may be called for. It is significant that within a short period, and all speaking independently of each other, three eminent leaders in road haulage have voiced similar sentiments.

At the end of October, during a slashing attack on the Transport Tribunal, Mr. G. K. Newman, Road Haulage Association secretary-general, said: "There is a distinct awareness that the licensing system is more restrictive than protective, that it should be more effectively geared to industrial expansion, and that changes . . must follow entry into the Common Market. . . In this event undue restrictions would have to disappear but so, too, would undue protection." Then, a month later, he warned that hauliers might have to accept changes.

Finally, within the past two weeks, both Mr. P. S. Henman, chairman of the Transport Development Group, and Mr. T. G. Gibb, the British Road Services chairman, have spoken out strongly. Mr. Henman, in the Henry Spurrier Memorial Lecture to the Institute of Transport, said: "If the industry is to maintain its supremacy, even though the pattern is changing markedly, its structure must remain such that the competitive stimulus continues to do its work." The freedom of road haulage was of great benefit to the customer, he said, adding: "For that reason the increasing rigidity which is being introduced into the goods vehicle licensing system is to be deplored."

Charging that interpretation of statutory provisions had diverged very considerably from the main intention of legislation, he said: "It is pertinent to inquire if a reappraisal of the licensing system is not due."

Mr. Gibb, also giving an Institute of Transport paper, said: "To say that a licensing system should be preserved is not to say it should remain unaltered. There are grounds for thinking the original law has become too exacting. An A-licensee, fettered with limitations, is hardly a general carrier any longer." He concluded: "The system seems to be well overdue for revision."

Mr. Newman, Mr. Henman and Mr. Gibb together represent the substantial majority of hire or reward hauliers. This triple indictment is, therefore, one that carries tremendous weight and authority. Every effort must be made to ensure that its full impact is presented to the Minister of Transport. The time has, perhaps, arrived when everyone should get together and present a powerful front—notice is not likely to be taken of any less.

The great thing to avoid, if feelings are this strong, is the apathy that comes from the majority of hauliers shunning revolution—preferring the existing imperfect licensing system to the unknown hazards of a new one—preferring: "The devil I know to the one I don't."

The Editor and Staff of "The Commercial Motor" extend to everyone sincere good wishes for a happy Christmas.

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NEXT WEEK

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- · Heavy Artic Road Tested

Personality of the Week

Arthur

THE last man in the commercial motor industry to whom the label "tycoon" could properly be attached is Arthur Marenbon, technical and sales director of R. A. Dyson, Ltd. Consider the literal meaning of that word, so often used in these articles. According to the Oxford Dictionary it is a synonym for great lord or prince. It was also used in by-gone days as the title by which the Shogun of Japan was described to foreigners. Today, resurrected by the Americans, it stands for the "big bug" (yes, I continue to quote the O.E.D.).

That, then, is precisely what Arthur Marenbon is not; and though it will, I feel, affront his logical mind that I attempt to describe a person by what he is not, those associated with him in, for instance, the trailer and semtrailer committees of the Society of Motor Manufacturers and Traders and in his business will understand what I mean.

But this might suggest that he is to be described only in negative terms, which would be just plain stupid. You don't become technical and sales director of a firm like Dyson by being negative. Arthur Marenbon is no faceless one, no passenger on an industrial trailer. But he is a quiet man—that essentially, I would say. I can picture him in a university common room, minding his own business in some secluded corner or lecturing in placid tones on some abstruse branch of mathematics, or sitting quietly at home catching up on his technical reading.

And, but for a quirk of fate, I imagine he might have taken to university teaching. His career at Reading School gave promise of a brilliant future. Mathematics was his special love—still is, if one may judge from a paper on trailers and semi-trailers he presented some years ago to

Bird's Eye View

New Medal for Spurrier Lecturers

THE Henry Spurrier memorial lectures, organized by the Institute of Transport, are invariably highlights in the transport calendar. This year was no exception. After a comprehensive review of the economics of goods transport by Mr. P. S. Henman, chairman of the Transport Development Group, an interesting little ceremony took place.

Since the inauguration of this series of lectures in 1945, the 16 successive lecturers have been presented with wall plaques as mementos. These were of bronze on an ebony base, and included a representation of the late Henry Spurrier taken from one of the few snapshots which were found to be available at the time.

First Recipient

On this occasion, however, Mr. Henman was the first recipient of a medal which is henceforth to replace the plaque. It is considered to be a more convenient memento, and is of oxidized silver. A portrait has been made from other photographs which have now come to hand, from which a new likeness has been created of the late Henry Spurrier for the die from which the medal is cast.

On this special occasion, therefore, it was particularly appropriate that the son of this famous road transport pioneer, Sir Henry Spurrier, should present this new medal to the 17th lecturer, Mr. Henman, who is himself so closely identified with the road transport industry.



"I don't think he agrees with the rate you quoted for that last job, Fred!"

Speed-trap Spotter

THE idea of a vehicle being equipped with a small portable electronic device to warn the driver when he is approaching a radar speed trap and enable him to slow down if necessary would almost certainly be frowned upon by the authorities in this country. Such a device is currently being advertised quite openly in the United States, however.

This modern version of the old A.A. scouts' method of

This modern version of the old A.A. scouts' method of warning by failure to give the then customary salute could have some amusing consequences. If widely accepted, the effect would no doubt be that the police could enforce a limit

Marenbon

the Institution of Mechanical Engineers. But whether or not there were inducements in that direction (and I have no ground whatsoever for saying that there were) he went from Reading School to R. A. Dyson and Co., Ltd., in

1925, where he has remained ever since.

Training came first. He was sent up to Liverpool to continue his education at Dyson's works. He did not disdain evening classes. Then he returned to London as assistant to the London manager, and five years after he joined the firm he was promoted to joint control of the London office. But administrative duties did not put a period to studies. In 1931, the year after his responsibilities mounted, he gained distinction in three subjects of the associate membership examination of the Institute of Transport, the only entrant who succeeded in doing so that year. By 1935 he had been appointed to the Board. And now, still there, but more senior in status as well as years, he presides over the technical development of the company's products as well as their sales.

How does he account for his steady progress through the years? He concedes that it has, in fact, been steady, but he gave me no new formula for it. Indeed, he clings to a very old fashioned one: hard work, he says, and a reasonable amount of luck. And, indeed, as I chatted to him I could not but think of the Victorian virtuesnow, alas, not so much valued-of self-help, faithful service to the people who pay the wages, and unremitting

study so as to improve service to the public.

His conception of "luck" is also a Victorian one. "I was fortunate in meeting my managing director, Joseph Dyson. He wasn't-and still isn't-a mere hirer of other people's brains. He took a deep and kindly interest in



Thirty-six years with trailers-Mr. A. Marenbon.

my progress and it was his encouragement that really fired me with the ambition to get on-and, especially, get on in R. A. Dyson and Co. I was also very lucky to receive help and encouragement from Stephen Barker, who was our chief designer in those early days.

Since 1925 trailer development has been continuous, Not long after Marenbon entered the industry the turnover to pneumatics from solid tyres marked a veritable leap ahead. Naturally, he had no part in that as he sharply emphasized. "How old do you think I am?" he demanded. However, he did a great deal of research into road/rail trailers, sometimes described as "transport co-ordination at its best."

Into this system, as I have said, Arthur Marenbon did much research, not only into actual design but also into utilization. Latest in the chain of development is an integral semi-trailer van. I asked him whether this meant that our British roads were about to be terrorized by commercial juggernauts similar to those which add such frightening hazards to the Italian highways. He reassured me. "They are much more like American vehicles."

It is interesting to note that the "Bush Train Unit"four or five trailers drawn by a truck-in operation in Australia's Northern Territory shown on a B.B.C. Television report recently is also by origin a Dyson product.

Arthur Marenbon's interests as sales director are, of course, world wide. Oilfield machines, used by many important producers, transports for heavy machinery, in service, for instance, in New Zealand-these merely serve to indicate that the Dyson market is broader than the British Isles. The potential is enormous. In the United States, Marenbon estimates, "two out of every three vehicles of over 5 tons capacity are trailer outfits of one kind or another." Ten years ago 200,000 trailers were used in Germany, 130,000 in Canada, more than 27,000 in Italy and over 3 million in the U.S.A. What the figures are for 1961 I do not know, but those of 10 years ago may safely be multiplied several times, at any rate for the U.S.A. and Canada.

So Arthur Marenbon need not sigh that there are no more worlds to conquer-not, I feel sure, that he does.

By The Hawk=

at a place that really demanded it, simply by siting a radar set there, while they might be deterred from attempting to set traps which have little justification in terms of the prevailing road conditions.

Would this do any harm?

Renewed Pleasure

JOHN MOON was telling me the other day, after he'd been driving a Bedford TK again for the first time for over a year (in a road test), that he still hadn't found another commercial vehicle in the 7-ton or below range that was such a pleasure to handle-and I rather gathered that he didn't expect to come across another one in the same class for some time. What a remarkable job John Alden and his merry men did when they designed the TK.

And what a standard they set their competitors to attempt to beat, too!

Overtime

HAVING braved the wintry elements, I called in at a fiveminute car-wash the other day. Everything was very polished and efficient-looking. I have only one complaint -I came out 35 minutes later!

Wordy

WHEN a document nearly four feet square was put into the Transport Tribunal as evidence after a long night's work. the president inquired:-

Is this the midday special? "

"No, the late night final," preferred counsel.

Busmen and the Pay Pause

FROM OUR INDUSTRIAL CORRESPONDENT

WAITING for Selwyn. That seems to be the new parlour game being played by unions and employers. Latest to join in the game are the busmen. Last week leaders of 39,000 London bus workers presented for the second time their three-point claim for higher pay and better conditions.

At the end of a three-hour meeting they appeared perfectly content to allow London Transport Executive to consider their arguments further and to come back some time next month with their reply.

By then, they clearly hope, the Chancellor of the Exchequer, Mr. Selwyn Lloyd, will have given an indication of when the Government's pay pause policy is to come to an end, thus enabling London Transport to make an offer,

There was a feeling that the Executive, too, would not be averse to offering higher pay, at least on a selective basis, as they cannot see any other way of overcoming the acute shortage of bus crews.

But until the Government give the allclear they are unlikely to commit themselves.

After the talks Mr. Sam Henderson. National Bus Secretary of the Transport and General Workers' Union, said that London Transport had given no indication that they were prepared to change their minds and make an offer. But they had agreed, in the light of the union's new submission, to meet them again.

A clue to the Executive's position was given when they originally rejected the claim last month. They said then that like other employers they felt bound to have regard to the Government's pay pause policy.

The men's claim is for a "substantial" pay rise, time and a half for all Saturday work and less week-end working. All the L.T.E. offered last time was a "scarcity allowance" for drivers and a joint committee to look into week-end work.

At the resumed talks Mr. Henderson pointed out that the index of retail prices had risen a further two points since they had submitted their claim.

He also mentioned that similar claims were due to be discussed next month with the employers of 100,000 company and 77,000 municipal busmen in the provinces.

It is believed he wanted the Executive's reply before January 11 when the first of the two meetings is due to be held.

After the meeting the busmen's negotiating committee decided to call a special delegate conference of London busmen as soon as the reply has been received.

Any settlement would, of course, have to be approved by such a conference. But this would also be the body to decide on strike or other retaliatory action should the answer be an unsatisfactory one.

There is little doubt should they make such a decision on the grounds that their claim had been turned down because of Government policy they would receive the full support of Mr. Frank Cousins, the union's general secretary.

He has repeatedly made it clear that he will fight that policy wherever he has the organization and strength. He lacks neither among the London busmen.

Meanwhile, on Monday, delegates from 74 London garages voted 71-3 in favour of one-day-a-week token strikes, every Monday from January 29, in support of the Underground men's similar stoppages over pay claim rejections.



LEGISLATION to restrict newly qualified motor vehicle drivers to a maximum speed of 40 miles per hour is proposed by the Musselburgh branch of the Scottish Horse and Motormen's Association in a resolution to be discussed at the union's annual conference early next year.

An amalgamation with the Transport and General Workers' Union is hinted at in a resolution tabled by the Kilmarnock branch. They want a committee to be set up to consider whether the creation of a federal body of transport unions or, alternatively, a merging of these unions, would strengthen the bargaining power of workers in the industry.

Bench Sympathizes in Records Case

IT seemed hard that when a driver failed to carry out his duties the company employing him should have to face prosecution, declared Mr. David Fair-bairn, defending, in a case before Wood Green (London) magistrates last Friday.

Mr. Fairbairn was appearing for Beautility Furniture, Ltd., of Angel Road, Edmonton, who pleaded guilty to four summonses for failing to cause records of work to be kept by drivers.

"My clients," he said, "would welcome any suggestion from the bench —or from anybody—as to how this type of offence could be stamped out."

Mr. Denis Hart, prosecuting, said one of the firm's vehicles was seen travelling south on the A6 near Market Harborough at 7 p.m. on May 2. When the records were later inspected by a traffic examiner, they showed that the driver of the vehicle had ceased work at 6 p.m. at Nottingham on that day.

Mr. Hart then detailed two further instances, relating to July 9; in one, records and visual observation taken together implied that the vehicle had gone 153 miles in less than an hour.

Mr. Fairbairn said: "When this kind of thing occurs it is only to the advantage of the driver and to the detriment of the company. If a driver cooks his record it is clear he is doing it for his own advantage or for some reason which is personal to himself."

This was a case, he declared, in which a very experienced transport manager did everything in his power to stop these offences. "It would be morally unjust to make this company pay a fine for something which they have done everything in their power to prevent."

Giving the defending company an absolute discharge on all four summonses on payment of £32 5s. 6d. costs, the chairman, Mr. J. B. Turner, said: "The Bench has considerable sympathy with the company who, we feel, have done everything administratively practicable to deal with this sort of thing."



Thermo-King refrigeration equipment is employed on this insulated body recently built by The Duramin Engineering Co., Ltd. for Scot Meat Products, Ltd. The body, which is of light alloy construction is mounted on a Hands 8-ton semi-trailer and is insulated with 4-in. thick polystyrene all round except for the floor where the insulation is 5-in. thick. Internal dimensions are 17 ft. 4 in. long × 6, ft. 9 in. wide × 6 ft. 6 in. high. A Bedford TK tractive unit is used with the semi-trailer.

Bus Operator Worried Over Traffic Bill Provisions

DUNDEE Corporation are concerned at the provisions of Clause 12 in the new Road Traffic Bill, a clause which they say could enable the Minister of Transport to enforce operators to carry out expensive modifications on existing vehicles over a very short period. At the Dundee transport committee's meeting recently, it was considered that some minimum period for enforcement of such alterations should be specified before the Bill becomes an Act.

In this concern over Clause 12, Dundee are said to be associating themselves with operator organizations in making representations to the Minister, but spokesmen of the M.P.T.A. and the P.T.A. this week assured The Commercial Motor that these bodies are not making any such representations regarding Clause 12.

Mr. Stanley S. Dawes

WE announce, with regret, the death on Sunday of Mr. Stanley S. Dawes, president emeritus of the Institute of the Motor Industry. He was 71 years old. He had been president of the I.M.I. for 13 years and was made president emeritus in 1959.

After working for Dennis Bros., Ltd., he joined Heath and Wiltshire, Ltd., in 1914 and had risen to be managing director and secretary when he left in 1934. He then joined Munn and Underwood, Ltd., Southampton, until he retired in 1946. He was a Freeman of the City of London and a Liveryman of the Worshipful Company of Coach Makers and Coach Harness Makers.

T.R.T.A. MEETING

THE Sussex Area of the Traders Road Transport Association is holding an open meeting for members and others at the Bodega Restaurant, Ship Street, Brighton, on January 16 at 7.30 p.m. Chief Supt. W. Cavey, Deputy Chief Constable, will speak on "Road Traffic Law and the Police Point of View.

Forthcoming Events

February 22-March 4.—Amsterdam Show.
March 15-25.—Geneva Show.
March 16.—Institute of Transport, Annual Dinner,
The Dorchester Hotel, London.
April 4.—Institute of the Motor Industry Annual
Dinner, Park Lane Hotel, London.
April 7-8.—National Coach Rally, Blackpool.
April 30-May 5.—FLS.IT.A. Ninth International
Automobile Technical Congress, Church House,
Westminster.
May 5-6.—Eighth British Coach Rally, Brighton.
May 8-18.—Mechanical Handling Exhibition, Earls
Court.

May 15-17.—Public Transport Association Confer-

ence, Harrogate,
May 18-20.—Institute of Traffic Administration,
Annual Conference, Blackpeol,
May 29-June 1.—Institute of Transport Congress,
Condition

June 4-8.—Public Cleansing Conference, Hastings. September 21-29.—Commercial Motor Show, Earls

r 15-17.—Road Haulage Association Confer-

ence. Bournemouth.

October 17-27.—Earls Court Motor Show.
Following are the provisional dates of Continental shows for 1962: Copenhagen—March 7-11; Paris—October 41-41; Turin—October 31-November 11.

Logs taken from the New Forest being loaded on to Levland Super Comet articulated outfit recently delivered to Geo. C. Croasdale, Ltd., of Ulverston.



Small Buses "Creaming" Air Freight

A LLEGATIONS that miniature buses fitted with radio telephones were "creaming" the London Airport air freight traffic were made by F. V. Carroll and Son, Ltd., of Isleworth, Middlesex, in London on Monday before Mr. C. J. Macdonald, the Metropolitan Deputy Licensing Authority. Mr. Macdonald refused an application by Roy Bowles Transport, Ltd., of North Hyde Lane, Southall, to put five such vehicles on B licence to carry air freight within 30 miles. The vehicles had been in use several years exclusively for the purpose of carrying freight.

Mr. M. H. Jackson-Lipkin, for Carroll and Son, Ltd., said the applicants had entered into air freight carrying by a back-door method. They admitted taking traffic away from licensed operators and were carrying it in vehicles whose drivers were not subject to the statutory hours of work, nor were the employers compelled to keep records.

They were only authorized to operate one vehicle on B licence. Now they were asking to add five because they had been using them. There was a further application pending for three more and Mr. Bowles said that in due course other applications would be made. In all, a total of 12 was envisaged.

Mr. Jackson-Lipkin contended that the operations were completely illegal. The applicant had said that he did not like these unorthodox methods, yet between the first and second hearings he had bought four additional miniature buses.

Replying for the applicant, Mr. R. M. Partington said it was significant that, although Mr. Carroll complained of abstraction, several additional vehicles had been added to his own licences during the past twelve months.

Naturally, the applicant disliked the unorthodox method, but he was not to be blamed for having taken advantage of what the law had failed to make clear. It certainly was unorthodox, but it was not illegal. Everybody, added Mr. Partington, would welcome a clear ruling regarding these vehicles.

Mr. Macdonald said the applicant seemed to have used every kind of device to carry the traffic except the proper one. He had used miniature buses, private cars and scooters. The letter of authority from the Middlesex County Council merely said that they required a vehicle from "time to time" to carry goods. The applicant had not told the Council that it was to be used for the carriage of goods for hire or reward the whole of the time

London traffic wardens insisted that the miniature buses were passenger vehicles and not goods carriers and therefore they were not entitled to the loading and unloading privileges of goods vehicles. Of course they were not, said Mr. Macdonald. If a person used irregular methods he must put up with the consequences.

Carroll's had suffered a great deal of abstraction from irregular methods. It would bring the licensing system into disrepute if licences were to be given for this "back stairs" entry. It was against

the public interest.

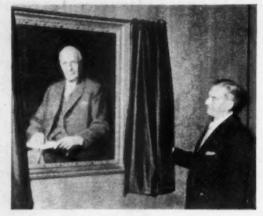
FIRST B.M.C. EXPORTS FROM BATHGATE

THE first two trucks to be exported from the new B.M.C. factory at Bathgate have been shipped Glasgow to Tenerife, Canary Islands. They were Austin two-tonners.

Mr. Frank Potter, export liaison superintendent at Bathgate, said the volume of orders would increase considerably after the New Year. The bulk of the shipments would be in C.K.D.

Men in the News

This portrait of Mr. Leslie W. Farrow, chairman of Casto of Ltd., was unweiled recently by Mr. L. M. Broadway, deputy chairman and managing director. Mr. Farrow has been Castrol chairman for over 18 years.



Mr. R. Gunter, a Reddish haulage contractor, is one of nine new J.P.s appointed for Stockport.

Mr. R. J. L. Wood has been appointed by British Geon, Ltd., as representative for Hycar nitrile rubber and latex in their southern sales area.

Mr. L. A. Wingrove has been appointed representative in Africa for Crypton Equipment, of Bridgwater. He will be based in Salisbury, Southern Rhodesia.

Mr. D. S. M. Barrie, assistant general manager of the North Eastern Region of British Railways, has been appointed a member of the Transport Users' Executive Committee for the Yorkshire area until November 30, 1963. He replaces Mr. F. C. Margetts.

When Mr. John Duguid, of Inverness, took his place as a Traffic Commissioner at Greyfriars House, Aberdeen, last week, he was making his final appearance in that position, for it was the last traffic court of 1961 in the area and Mr. Duguid's term of office ends at the close of the year.

Mr. H. M. Lawrence, of Compton, near Winchester, has been elected to the Court of the Worshipful Company of Carmen. This ancient guild dates back to 1276 and Mr. Lawrence, who is a Freeman of the City of London, has been a liveryman since 1935 when he was transport manager of the former Gas Light and Coke Company. He is now materials handling, transport and coal manager of the Southern Gas Board.

Mr. H. Mortimore is retiring at the end of this month for health reasons from the position of executive assistant (sales) to the deputy chairman and managing director of the Ford Motor Co., Ltd., Dagenham. He has been with the company for 38 years and has represented them on many committees of the S.M.M.T. and other trade associations. Mr. Mortimore will continue as chairman of the company's subsidiary, Lincoln Cars, Ltd., of which he has been a director since 1957.

Mr. J. Valentine has been appointed a director of Andersons Insulation Co., Ltd., and Mr. F. S. Page, manager of the Belfast branch, has been appointed general manager. Mr. H. Magee, assistant manager at Belfast, succeeds Mr. Page as manager there.

Mr. J. A. Fitzpatrick has been appointed northern area manager at Manchester of Cape Insulation and Asbestos Products, Ltd., a subsidiary of the Cape Asbestos Co., Ltd. He succeeds Mr. J. F. Callaghan who has retired after 41 years with Cape Asbestos.

Mr. E. Jones, manager of Brown Brothers' tyre department at Great Eastern Street, London, E.C.2, has been presented with a television set by the deputy chairman and managing director, Mr. J. T. Masterton, to mark his completion of 50 years' service with the firm.

Sir Leonard Lord has agreed to act as adviser and consultant for the whole of the B.M.C. Group. This was announced at the A.G.M. of the British Motor Corporation last Friday, when Mr. George Harriman, the new chairman, paid tribute to Sir Leonard on his retirement from the chairmanship and thanked him for his magnificent leadership over the past 10 momentous years.

Mr. Edward Cassidy has been appointed to the board of Coras Iompair Eireann. He is chairman of Ernetex. Ltd., and a member of the Eire Agricultural Wages Board and other bodies.

Mr. D. J. Meredith has been appointed by the Maidstone and District Motor Services, Ltd., to succeed Mr. T. J. G. Homer as district superintendent of their Hastings area on Mr. Homer's retirement at the end of the year.

Mr. H. P. Thorne, who for the past seven years has been transport superintendent of the Qatar Petroleum Co., Ltd., in the Middle East, has joined the head-quarters staff of the BP Group as manager of transport branch, Stores Department, BP Trading, Ltd., in succession to the late Mr. A. G. A. Runacres.

Mr. W. A. Adam has been appointed managing director of the three British divisions of the Yale and Towne Manufacturing Co. He succeeds Mr. J. T. McCarley who has been appointed director of manufacturing of the international operations of Yale and Towne, with headquarters in New York. Mr. Adam is 41.

Mr. J. W. Womar, at present chief engineer of the Potteries Motor Traction Co., Ltd., has been appointed general manager of that company in succession to Mr. S. J. B. Skyrme, now general manager of Southdown Motor Services. Ltd. After early training with the North Western Road Car Co., Ltd., and Leyland Motors, Ltd., Mr. Womar became technical assistant to the chief engineer of North Western in 1938, leaving in 1939 to join the Forces. On demobilization in 1946 he was accepted for the B.E.T. training scheme. Since completing his course in 1949 he has held posts as personal assistant to the general manager of the Northern General Transport Co., Ltd., traffic manager of the Gateshead and District Omnibus Co., and chief engineer of Eddison Plant, Ltd. Mr. Womar will take up his new duties on January 1 next.

Leyland Engineer Joins Spanish Board



Mr. Tattersall

THE chief engineer of the engine division of Leyland Motors, Ltd.. Mr. Norman Tattersall, has been appointed a director of Spain's largest commercial vehicle manufacturers. Empresa Nacional de Autocamiones S.A.

Mr. Tattersall, who retains his present position at Leyland, will act as a technical consultant to the Spanish company. He has had long experience in diesel engine and commercial vehicle design, and has served on many technical committees of the S.M.M.T. and M.J.R.A.

It will be recalled that Leyland and E.N.A.S.A. established a financial link two years ago, at which time Sir Henry Spurrier and Mr. Donald G. Stokesjoined the E.N.A.S.A. board.

He Clocked the Clock

A JOURNEY-RECORDING clock placed in the cab of his lorry by his employers annoyed him, so James Robert Whittaker smashed it up. Bridgwater magistrates were told.

"It was just like a boss standing next to you in the cab marking up everything you do," Whittaker told

a police constable.

A detective inspector told the magistrates that when a director of the company, Miles and Alway, Ltd., cattle transporters of Bawdrip, Som., found the recording clock was not working he reported the matter. It was stated that the clock appeared to have been struck by a blunt instrument.

When interviewed by the police, Whittaker said he had got "fed up with the thing and the noise it made." When he changed year his elbow caught against the clock and he had struck at it in a moment of annov-

Whittaker was fined £2 for wilfully damaging the clock and was ordered to pay £2 7s. 10d. compensation.

THORNYCROFT SERVICE IN S.E.

THE London branch of Transport Equipment (Thornycroft), Ltd., at Clapham Road, London, S.W.9, has been closed in a further stage of the integration of the Thornycroft sales and service organization with that of A.E.C., Ltd. Stocks of Thornycroft spare parts and service replacement units have been transferred to the A.E.C. Spares Depot, 50 Page Street, Westminster, London, S.W.1. (Phone: Victoria 4777.)

Repairs facilities for Thornveroft vehicles will be available at the A.E.C. Service Depot, 20 Windmill Lane, Southall, Middlesex (phone: Southall 2300), and also at C.V. (Sales and Repairs), Ltd., Cranes Close, Nevendon Industrial Estate, Basildon, Essex (phone: Basildon 20223). Spares and a 24-hour service coverage will be available.

Longer, Heavier Goods Vehicles?

FROM A SPECIAL CORRESPONDENT

THE Ministry of Transport may be preparing to make an announcement concerning bigger, heavier goods vehicles. This is the implication behind the recent submission to the Ministry by the National Road Transport Federation of suggestions for increasing the box dimensions and carrying capacities of goods vehicles. Obviously the two must go together.

Why is the Ministry announcement an implication? Because I understand that the Ministry suggested that the N.R.TeF. might care to submit the suggestions!

The Ministry is undoubtedly thinking in terms of bringing British articulated vehicles more into line with Common Market vehicles, and talks have been going on for more than a year about semi-trailer dimensions.

But I understand that approaches have not yet been made to the manufacturers by the Ministry on the question of longer rigid vehicles and increased axle and gross weights.

The N.R.T.F. has proposed 36-ft. long by 8-ft. 21-in. wide goods vehicles. It suggests an increase to 40 ft, in the length of articulated units.

Maximum gross weights should be as follows, said the N.R.T.F. (present weights in parentheses): four-wheeler 15 tons (14); six-wheeler 21 tons (20); eightwheeler 26 tons (24); articulated units, four or more wheels on semi-trailer 32

Also suggested were an increase from 9 to 10 tons in maximum axle loadings, also to apply to trailers, and a gross weight limit of 16 tons on four-wheeled trailers instead of the present 14 tons.

A new gross weight limit of 38 tons was proposed for articulated vehicles consisting of a tandem-axle semi-trailer and six-wheeled tractive unit, and for vehicle and trailer with power-assisted brakes. Also sought was an increase to 12 tons (11) for semi-trailers with four or more wheels in line.

T.R.T.A. Representations Accepted

BECAUSE of representations made on behalf of commercial vehicle operators in the Southend parking meter scheme, the Southend Corporation have made a number of adjustments to their plans, state the Traders Road Transport

Mr. R. E. G. Brown, T.R.T.A. London secretary, states: "The Southend Corporation published its proposals before discussing them with affected interests. We objected on the grounds that the proposed facilities for loading and unloading in the heart of Southend's shopping area were quite inadequate. Many shops would have been virtually cut off for the whole of the day.

"Our Traffic Officer and members of the divisional staff examined every inch of the roads concerned, the siting of the meters, the extent of the loading bans and the spaces for unloading.

result representations were made for 30 additional loading spaces.

We have now been informed that adjustments to meet our representations have been made in 23 cases and we have been thanked for the assistance given to the Council and its officers.

Now facilities for the delivery and collection of goods in Southend will be immeasurably better than they might have

SNAGS IN FRANCE

DIFFICULTIES experienced by firms using commercial vehicles on international journeys to or through France are being investigated by the international department of the Traders Road Transport Association.

The difficulties arise from restrictions imposed by the French authorities. A number of cases have been taken up.

Recently put into service by Massey-Ferguson (U.K.) Ltd., is this mobile classroom. Karrier Gamecock with Perkins 6.305 diesel engine is the tractive unit. The 24-ft.long body is based on a Carrimore drop-frame semitrailer, and was built by Silverdale Motor Bodies, Ltd., Birmingham. The vehicle was supplied through Coventry Garage Ltd., Holyhead Road, Coventry.





This Guy Victory Coach is one of two recently placed in service by the West Australian Government Railway Road Services on the 225-mile run between Perth and Albany. The 20-ft. 6-in. wheelbase chassis incorporates air suspension for all wheels, independent at the front, and disc brakes. The power unit is a Leyland 150 b.h.p. diesel engine, driving through a five-speed semi-automatic gearbox. Bodywork was built to the operator's specification by Motor Body Builders, of Perth, providing accommodation for 34 passengers on aircraft-type reclining seats.

Micrograms

Acquired: The motor coach tours section of the Plymouth Co-operative Society, and a number of the society's coaches, have been acquired by the Embankment Motor Coach Company, Plymouth.

Ireland Forsakes Green: Double-deckers of Coras lompair Eireann are in future to be painted in dark blue, cream and white. An experimental group in this livery has recently een in use on Dublin services,

Annual Dinner: There was a capacity attendance at the annual dinner of the Wigan and District Excursion and Tour Operators' Association. Praise for the work of the organization in sponsoring the National Couch Rally at Blackpool was expressed by Mr. J. F. Speed.

Cardiff Terminal: With their bulk fuel supplies now being handled in Lincolnshire at Keadby and Immingham, Jet Petroleum, Ltd., plan to spend about £500,000 on building a terminal at Cardiff Docks and setting up between 200 and 300 filling stations throughout Wales, Gloucestershire and Somerset.

and Somerset.

Extended Service Factory: A £170,000 extension has been completed at the Leyland service factory, Chorley, where 60,000 sq. ft. of floor space has been added, bringing the total covered area to about 140,000 sq. ft. Each of the five new storage bays is 225 ft. long and 42 ft. wide, and there is a dispatch bay 210 ft. long and 60 ft. wide.

Limited Grant to Touring Company

A N application by Windsorian Touring Co., Ltd., to renew a road service licence in respect of eight extended tours starting from Windsor was refused last week by the South Eastern Traffic Commissioners, sitting at Reading.

Mr. H. J. Thom, the Chairman, upheld a submission by the objectors-Wallace Arnold Tours, Glenton Tours, Workers Travel Association and Southdown Motor Services-that, as the licence had been operated on a limited scale since the war; any renewal would abstract traffic from their own established tours. The Commissioners, however, granted a licence to cover three specific two-day tours.

New Eire Express Service

SCHEDULED to cover the 70-mile journey between Dublin and Cavan in two hours, a new named road service was introduced by Coras Iompair Eireann recently. The Cu Uladh Coach Express. which may be regarded in the light of an experiment, is intended to provide a fast and comfortable public service for an area which has no direct rail connections to the capital.

A 34-seat luxury vehicle will be employed and it will be rostered by three experienced C.I.E. tours drivers. As there will be no intermediate stops the coach will be operated on a driver-only basis and bookings will be made at the terminal offices.

NEW BUS STATION PLAN

AGREEMENT in principle was reached last week by Middlesbrough Town Planning Committee to the establishment of one joint bus station to serve the town.

At present corporation buses operate from the Exchange and United and other long-distance buses from the United Bus Station in Newport Road. The committee want to see these replaced by one station in the Hill Street area, north west of the town centre and roughly equidistant from present stations.

Rossendale Municipal Bus Merger Feelers

THE idea of a joint transport system formed by merging the municipal undertakings of Haslingden. Ramsbottom and Rawtenstall is being revived. This was proposed some years ago but was abandoned because of failure to reach agreement in the course of discussion between the three councils. The present initiative comes from the Rawtenstall Town Council.

The present fleets of the three municipalities total 78 vehicles, all of Leyland manufacture except for one Guy. Rawtenstall fleet is the largest, with 47 vehicles, the Haslingden and Ramsbottom totals being 17 and 14 respectively. Some degree of co-ordination is implied under the existing arrangement by the fact that Mr. L. T. Merrall is general manager of all three undertakings.

"Difficulties Ahead for Bus Drivers"

WARNING that it will become A increasingly difficult for bus drivers to maintain their safe driving records was given by Mr. A. J. White, general manager of the Maidstone and District Motor Services, Ltd., at a presentation of R.O.S. Co. awards last week.

After paying tribute to the drivers' achievements in 1960, he said that with vehicles on the roads increasing at the rate of 10 per cent, every year, it was estimated that by 1970 there would be 17 million running on a system that was never designed to take them.

Drivers would need to be very quickwitted to cope with these conditions and. to add to their difficulties, the increase in vehicles would bring an increase in the number of inexperienced drivers.

A total of 740 of the company's drivers won awards in the 1960 safe driving competition, amongst them being 251 with awards for 15 years or more. Conductors entered in the R.O.S. Co. Award of Merit competition gained 666

READY-MONEY REQUEST

TWO pay-as-you-enter buses began operation last week on the Hyde Park circular route at Doncaster. 45-seater vehicles have replaced trolley buses. Notices on them ask the people to have their money ready before boarding, to speed up loading.

Unprofitable Increase is Refused

THE Yorkshire Traffic Commissioners last Friday refused permission to East Yorkshire Motor Services to increase fares on the Hornsea and Withernsea

At a previous sitting the company told the Commissioners they stood to gain more if the application were refused than if it were granted (see page 658, The Commercial Motor, December 15). The Commissioners decided it would be against the public interest to allow East

Yorkshire Motor Services to put up their fares in line with those of British Railways.

At the previous hearing, Mr. F. A. Stockdale, for the bus company, said that the application was made so that parity between rail and bus fares, which had operated since 1933, would be maintained when the proposed increase in rail fares for the journey from Hull to Hornsea and Hull to Withernsea came into operation on January 1.

Large Fines for P.M.T. and Drivers

THE Potteries Motor Traction Co., Ltd., and three of their drivers were fined more than £77 at the Stoke-on-Trent magistrates court last Friday. The company pleaded guilty to permitting the men to drive for long periods without the necessary rest intervals. The drivers, Arthur Henshall, Trafalgar Street, Hanley; James Thomas Jones, Scott Road, Little Chell, Tunstall, and Horace Davies, Buxton Street, Sneyd Green, Stoke-on-Trent, also pleaded guilty.

Prosecuting, Mr. V. A. McKnight said

Prosecuting, Mr. V. A. McKnight said that all the drivers had been on duty for periods without a break, during the last August bank holiday week-end. P.M.T. were licensed to operate express services from the Potteries to Lowestoft and Great Yarmouth, leaving Tunstall at 10.30 p.m. Two drivers always left with each coach, but received no specific instructions regarding their actual duties.

Henshall, Jones and Davies had all been engaged on this service and had driven coaches to the East Coast and back without a proper rest.

On one occasion Henshall had been on duty for nearly 24 hours. When one of the drivers was "spare" and travelled as a passenger, he was still not resting properly contended

Mr. McKnight. If a man was fatigued he could be a danger to other road users, especially when roads were crowded.

Mr. J. Rees, defending, said it had been the intention of P.M.T. to send two drivers on every journey to the East Coast. One was supposed to drive on the outward journey whilst the other travelled as a passenger, and when returning their positions should be reversed.

The discrepancies were only a technical infringement of the regulations laid down by the Road Traffic Act. However, in future careful instructions would be given to drivers.

The Potteries Stipendiary Magistrate, Mr. G. Smallwood, did not consider there had been technical infringement of the regulations. If a man travelled in a coach for a long period, even when not driving, he became fatigued. A rest taken off the road was necessary. The public had to be protected and some experienced drivers had to be protected from themselves.

He fined Henshall and Davies £8 3s. each and Jones £6 3s. P.M.T. were fined £55 and asked to pay 10s. costs and 21 guineas advocate's fee.



Latest addition to the fleet of Brown Brothers, Ltd., is this specially equipped Albion Chieftain. It is used for the delivery of heavy garage equipment from central warehouses in London to customers' premises or sites in all parts of the country. The vehicle has a special reinforced body and is fitted with the HIAB Model 172 Speed Loader and hydraulic crane.

The Penalties of Over-Enthusiasm

A LORRY driver, said to be over enthusiastic about building up business, was fined a total of £20 with eight guineas costs at St. Albans City Court on Tuesday for failing to keep records of work and for driving a goods vehicle for more than the permitted 11 hours without a rest period.

A St. Albans haulage firm, Maddison and Kevans (Transport), Ltd., were also fined £60 with eight guineas costs for failing to see that records were kept and allowing the driver to drive longer than

the permitted hours under the Traffic Act. Both the driver, Michael Alan Maddison, of Haddon Court, Hatfield, and the firm admitted the offences.

Maddison was fined £5 with two guineas costs on each of four charges—two for driving longer than the set period and two for failing to keep records. The company was fined £15 with two guineas costs on each of four charges of failing to see the records were kept and allowing Maddison to drive more than the permitted hours.

20-Journey Tickets Sought

INTRODUCTION of 20-journey weekly bus tickets was sought before the Scottish Deputy Traffic Commissioners by Simpson's Motors, Rosehearty, last week.

Mr. James Kindness, the firm's traffic superintendent, said the application was made in view of the change to the five-day week in many industries. For the majority of workers 24-journey weekly tickets were no longer necessary.

Opposition came from W. Alexander and Sons, Ltd., for whom Mr. R. C. B. Currie said this was virtually an application for a reduction in fares. If this innovation came about, others would have to follow and in the end could result in applications for higher fares in other directions.

Mr. Ivo Townsend, the chairman, recalled that Simpson's had some time ago been granted authority to prune or withdraw certain unremunerative services, "Now you are going to still further impair your financial position in introducing 20-journey tickets at lower fares. The result will be either further pruning or pleas for increased fares to make up what you are losing."

The application was withdrawn.

Bid for Seven Tours

To provide a greater variety of destinations for their passengers and increase the duration of some of their existing tours. Heaps Tours, Ltd., applied to the Yorkshire Traffic Commissioners last week for more vehicle journeys and longer periods of duration in respect of eight destinations.

New services to Weymouth, Skegness, Edinburgh, Dover, Stranraer, Bournemouth and Great Yarmouth were sought and it was said that if these were granted they would add to the company's facilities by 86.6 per cent.

Mr. R. Meacroft, manager of Heaps, produced operational figures for the 1961 season and pointed out that during the early part they had not used their vehicle allowance to capacity because there had not been sufficient traffic.

However, the average loading figure for each vehicle journey during this year had been 36. Over 5,000 people had already made bookings for 1962. All the tours on the existing licences were being operated to near capacity, and passengers were always asking for a wider choice of destinations.

Mr. Meacroft saw no reason why they should not try to cater for this demand.

The application was opposed by Wallace Arnold Tours, Ltd., Sheffield United Tours, Ltd., Feather Bros. (Tours), Ltd., Yorkshire Traction Co., Ltd., United Automobile Services, Ltd., Eastern Omnibus Co., Ltd., Tetley's Motor Services, The Yorkshire Pool Operators and British Railways.

Over 45 witnesses attended to support the application, which was continued at Leeds on Tuesday. The case was again adjourned for further evidence to be

Strikes Hit Spitalfields and B.R.S.

From Our Industrial Correspondent

THE Road Haulage Wages Council award was the indirect cause of two strikes of lorry drivers last week-one official, the other unofficial.

The official dispute, called by the Transport and General Workers' Union, was at Spitalfields Market, London's second largest fruit and vegetable centre, now at its busiest time of the year.

It should have started on Monday, but was called off at the last moment to allow further talks to take place between the union and the Spitalfields Market Tenants' Association.

Cause of the trouble was the starting date of the 3 per cent, rise and two-hour cut in the working week for the market's They customarily C-licence drivers. follow Wages Council awards, though not covered by them, and the employers offered the same starting date, January 1. The union wanted November 13

What happened in the renewed negotiations is a little obscure. The employers appear to have offered to go to arbitration, a move which the union rejected.

Jones Transport Case Adjourned Again

THE application by Jones Transport Services (Liverpool), Ltd., involving a switch of 30 vehicles from Contract A to public A licence, was continued at Liverpool on Thursday of last week (see page 662, The Commercial Motor. December 15). The case had attracted a total of 115 objectors from many parts of Great Britain.

On this occasion representatives from eight north western industrial concerns supported the new licence as they thought it would be advantageous in transporting

small and part loads.

A director of Pearson Bros. and Campbell, Ltd., Mr. J. B. Machin, pointed out that they made small concrete products, such as sectional garages, and sometimes it was impossible to get such things carried to Cumberland. November an order had been cancelled by the Cumberland County Council because delivery had not taken place within a specified time. Usually their loads only weighed about 4 tons.

Mr. J. Edward Jones, objecting for the private road operators, suggested that it was unreasonable to expect hauliers to be ready and waiting to move small consignments of this nature as far afield as Cumberland. Mr. Machin disagreed and said he thought road operators should give a prompt and efficient service

to industry as a whole. When the case for the applicants was concluded, the objectors asked for a short time to evaluate all the evidence given. The North Western Licensing Authority, Mr. F. Williamson, accordingly adjourned the application until January 24. It is also due to be heard on January 25, 26 and 29.

With deadlock reached, the union instructed its members to come out on strike and on Thursday morning more than 50 drivers came out. Others, however, whose employers had agreed to pay the extra money, were at work as usual. But by Friday morning porters who

belong to the same union had taken a hand. They declared "black" 15 firms whose drivers were on strike and also kept a watch for lorries taking the place of C vehicles.

This action brought a quick response. After another meeting between employers and union the strike was called off and the market returned to normal. settlement terms were announced, but it can be assumed that the employers agreed

The unofficial strike affected a series of parcels depots, mainly in London, of

British Road Services.

It followed the renewed rejection by B.R.S. of the union's demands to bring their pay offer into effect before January 1. In addition, maintenance men at the depots objected to the turn-down of their claim for a 15 per cent. lieu

B.R.S. Office Staffs' 40-hour Week

THE several clerical grades of British Road Services are to have their working week reduced from 42 to 40 hours. This follows an award made by the Industrial Court on October 13 and published last week

A further' meeting of the Court was held on Monday so that the B.R.S. management and the unions could reach agreement as to the implementation of the award and the effective date of the reduction in hours. But at the time of going to press no statement was available as to the decision reached.

"London Man For L.T.E. Board"

If the Government wanted to give public transport a priority on the roads of London, the Minister of Transport had to demonstrate to the bus driver how he proposed to do it, and what his long-term objectives were, said Mr. Richard Marsh (Lab. Greenwich) last week

He doubted whether anyone at Government level had tried to do this, went on Mr. Marsh, who was supporting an unsuccessful Opposition attempt to ensure that a majority of the members of the London Transport Board must have "wide experience of . . . and shown capacity in " the capital's transport.

It was against this background that they told the Government that the persons they appointed must not just sit in the boardroom, but must go down to the garages, talk to the men, understand their problems and tell them what the problems of the Board were, said Mr.

The M.P. whose amendment to the Transport Bill was being discussed in Standing Committee, Mr. Charles Mapp (Oldham East), said that if people were to be appointed to run London Transport they should have some knowledge of all the problems and some experience of this great undertaking of moving ten million people.

But Mr. John Hay, Parliamentary Secretary to the Ministry of Transport, pointed out to him that the Bill already contained the words "urban transport and "urban" covered London.

"There is the hypothetical situation which might arise in which perhaps one wanted a new member for the London Board and there was available someone very experienced in urban transport in Manchester or some other part of the country who was a 'natural' to put on the London Board. That is why we use the word 'urban' rather than 'London'.

Orders and Deliveries

RELIANCES FOR TRINIDAD: A total of RELIANCES FOR TRINIDAD: A total of 60 A.E.C. Reliance single-deckers has been ordered for service in Trinidad. To be operated by Aziz Ahamad and the Princes Town Special Bus Co., the orders call for a total of 55 complete buses with Duple bodywork and five chassis to be fitted with locally built bodies. The chassis will be of the standard design intended for 30-ft.-long bodywork, with AH470 engines and synchromesh gearboxes. The Duple 44-seat bodywork is to be of all-metal construction and has been designed to suit operating conditions in Trinidad,

MYSORE TO TAKE 100: A repeat order for 100 Leyland Comet bus chassis has been placed with Ashok Leyland, Ltd., of Madras, by the Mysore Government Road Transport Corporation. An order for 10 similar models has been placed by Andkra Pradesh State Road Transport Corporation.

SHROPSHIRE COMETS: Four Leyland Comet tippers have been ordered by Shropshire County Council. They are to have Telehoist 3-way tipping gear and 6-cu-yd. bodies by E. J. Holyoake, Shrewsbury.

GIFT TRUCKS FOR IRAN: Eight Ley-land Super Beaver 150 b.h.p. models have been ordered by the Crown Agents for Overseas Governments and Administrations. They are to be presented to the Iranian Ministry of Roads and Communications by the British Government under the technical co-operation scheme of the Central Treaty Organization, Six are to be fitted with Edbro 3-way tipping gear and 6-cu.-yd. bodies and the remaining two will have Darham 2,000-gallon water tanks.

EAST YORKS ORDER MORE BRIDGE-MASTERS: East Yorkshire Motor Services. MASTERS: East Yorkshire Motor Services, Ltd., are to increase their fleet of A.E.C.-Park Royal Bridgemaster double-deckers to a total of 50 as a result of the latest order for 15 vehicles of this type. The new vehicles are of particular interest because the specification calls for forward entrances; East Yorkshire have hitherto favoured the rear entrance position. The inward slope of the upper deck window pillars to give adequate clearance when negotiating the Beverley Bar clearance when negotiating the Beverley Bar archway, which was a feature of the last batch of rear-entrance Bridgemasters, will be incorporated in the new vehicles.

Tribunal Dismisses Appeal Against East Anglian Grant

THE Transport Tribunal in London last week dismissed an appeal by three haulage firms against the granting of an A licence to East Anglian Carriers, Ltd., of London and Bury St. Edmunds. The licence was in respect of a 31-ton vehicle, based at Bury St. Edmunds, mainly to carry goods in containers for the General Steam Navigation Co., to and from Felixstowe. It was granted by the Eastern Licensing Authority.

The three appellant firms were Warners Transport, Bury St. Edmunds, C. J. H. Smith, Barrow, near Bury St. Edmunds, and C. B. Taylor, Barnham, near Thet-ford. At a previous hearing, Mr. M. D. Van Oss, for the appellants, said the grounds of the appeal were that the Authority based his decision on evidence

given at an earlier sitting.

Giving the Tribunal's reserved decision, the President, Sir Hubert Hull, recalled that East Anglian Carriers first made a similar application in 1960.

A Mr. Moore, representing the General Steam Navigation Co., had given evidence in support of the application, but the Licensing Authority, in his decision, said: "I cannot, somewhat reluctantly, see my way to granting this application as it stands, the normal user, in my view, not being framed to cover the field of delivery required by the com-

Sir Hubert said a fresh application, with a more narrowly framed normal user declaration, was made. This time, however, it was not possible to call Mr. Moore, but a letter signed by a Mr. Grover, Mr. Moore's immediate superior, was produced. In this he stated: "Our position with regard to transport is unaltered except that, if anything, it is more acute."

The Licensing Authority treated the evidence given by Mr. Moore at the previous inquiry as being admissible.

The Tribunal, said Sir Hubert, was

satisfied that the Authority was right in taking Mr. Moore's evidence into account and the criticism that it was out of date was met by Mr. Grover's letter.

We do not desire to be understood as laying down any general principle as to the use by a Licensing Authority of evidence given at a previous inquiry," said Sir Hubert.

The appeal then boiled down to the following questions of fact, said Sir

(1) Was the evidence sufficient to show there was need for improvement in services available for the road carriage of the containers to and from Felixstowe?

(2) Had the respondent company already sufficient carrying capacity available to regularly make good whatever deficiency there was in the facilities then enjoyed by the Navigation Company?

(3) Had the objectors shown that they could be relied upon, again with sufficient regularity, to make good any such proved

"In our view, the answer to the first question is 'Yes' and to the second and third 'No,'" added Sir Hubert. "Having arrived at these answers, not I should add without some hesitation, it follows that the appeal must be dismissed."

New Companies

Bloswich Motor Transport Co., Ltd. Cap. £5.000 Dirs.: M. Abbotts. Elm Court, Sutton Road, Walsall; E. G. Abbotts, 15 Queens Road, Walsall, Sec.; E. G. Abbotts. Reg. office; 15 Queens Road.

Walsall,
W. Bolitho (Redruth), Ltd. Cap. £5,000, Dirs.;
W. T. Bolitho, Penstruthal, Redruth, Cornwall,
J. C. J. Stock, Sa Mount Pleasant, Hayle, Cornwall,
Sec.; J. C. J. Stock, Reg. office; Penstruthal,
Redruth, Cornwall.

Redruth, Cornwall.

W. E. J. Shapland (Haullers), Ltd. Cap. £3,000.

Dirs.: W. E. J. Shapland and M. Shapland, South

Hayes, Landkey, Barnstaple, Sec.: G. H. Wilkey,

Reg. office, South Hayes, Landkey, Barnstaple.

Prichett Brothers (Transport), Ltd. Cap. £100. Dirs. R. J. W. Butcher and V. L. Butcher. 114 Windmill Road, Brentford, Middx, Sec.: V. L. Butcher, Res. office: 114 Windmill Road, Brentford,

Hector MacMillan, Ltd. Cap. £3,000. I [A. MacMillan and G. D. MacMillan, Artiouse, The Fairway, Burnham, Bucks, Reg. or mour House, The Fairway, Burnham, Bucks

Armour House, The Fairway, Burnham, Bucks.

Allan Brown (Transport), Ltd. Cap. £12.000.

Dirs.: A. S. C. Brown, 31 Lichfield Avenue,
Evesham: P. G. Osborne, Bereta, Aldination, nr.
Evesham: Sec.: A. S. C. Brown. Res. office: The
Booth Hall, Market Place, Evesham. Res. office: The
Booth Hall, Market Place, Evesham.
Kecurl Transport, Ltd. Cap. £100. Subs.:
S. Hart and A. Hart, Imperial House, Kingsway,
London, W.C.2. Sec.: S. Hart, Res. office: 713
Imperial House, Kingsway, London, W.C.2.

Martin Raven, Ltd. Cap. £100. Subs.: M. Raven
and M. P. Raven, The Knoll, Kempsford, Fairford,
Glow. Dirs.: M. Raven. Sec.: M. P. Raven. Res.
office: The Knoll, Kempsford, Fairford, Glos.
Ludlow Storage and Transport, Ltd. Cap. £600.

office: The Knowl Kempstord, Parriord, Gios.

Ludlow Storage and Transport, Ltd. Can. £600.

Dirs.: N. T. Lloyd, St. John's House, Ludlow,

D. W. Plant, The Gables, Julian Road, Ludlow,

Sec.: S. R. Hayes, Reg, office: Ludford Bridge.

Ludlow.

N. and S. Forde, Ltd. Cap. £1,000. Dirs.: S. Forde. 46 Cretan Road, Liverpool. 15: G. Harvey, I Fell Street, Liverpool. 7. Sec.: N. Forde. Reg. office: 6 Telford Street, Liverpool. 7.

Tarbuns Transport, Ltd. Cap. £1,000. Dirs.: A. L. George. 66 Higham Street, London, £17: V. R. Coward. The Ferns. Fernside. Buckhurst Hill, Essex. Sec.: V. R. Coward. Reg. office: 10-12 Erskine Road, London, £17:

T. and J. Transport, Ltd. Cap. £100. Dirs: F. Clift, 38 Peckham Hill Street, London, S.E.15. Hitchin, 10 Whitbread Road, London, S.E. Lec.; T. F. Clift, Reg. office: 10 Whitbread Road, ondon, S.E.4.

Sec.: T. F. Clift, Reg. office: 10 Whitbread Road. London, S.E.4.

Matilda Coach Works, Ltd. Cap. £100. Subs.:
C. F. Cooper, 18 The Highlands, Crouch Hill. London, N.4: J. A. Parsons, 18 Ruskin Buildings, Milibank, London, S.W.I. Dir.: C. F. Cooper, Reg. office: Offices of E. P. Milford and Co., 4 Quex Road, London, N.W.6.

MacLarger Plant and Transport, Ltd. Cap. £1,000. Dirs.: W. E. Jones, 58 Longcross Street, Cardiff: S. Collins, 3 Trelawney Avenue, Cardiff. William Slmm (Coaches), Ltd. Cap. £5,000. Dirs.: T. Jackson and E. Jackson, "Oakdene," Windser Road, Chorley, Sec.: T. Jackson, Reg. office: 65 Higher Market Street, Kearsley.

Day and Night Transport, Ltd. Cap. £5,000. Dirs., M. Latif Mailk and Mrs. E. Z. Latif Mailk. 29 Faulkner Square, Liverpool; M. S. Qureshi and M. R. Chowdhry, 22 Armoury Road, Smallheath, Brimingham.

M. R. Chowdhry, 22 Armoury Road, Smallheath, Birmingham, H. and J. Nastri, Ltd. Cap, £100. Dirs; J. F. Nastri, 12 Woodlands Road, Romford; J. E. Nastri, 27 Wentworth Way, Rainham. Sec.; M. C. Nastri, Reg. office: 9-12 Basinghall Street, London, E.C. J. H. Myers, Ltd. Cap, £5,000. Dirs; J. H. Myers, and J. Myers, 124 Hawthorne Place, Clitheroe. Sec.; J. H. Myers, Reg. office: Ribble Garage, Waddington Road, Clitheroe, Lanes.

APPEAL ADJOURNED

AN appeal by Mr. E. J. C. Lytham, trading as Lytham Bros., of Quarry Road. Stoneveroft, Liverpool, against a decision of the North Western Licensing Authority was adjourned for six months by the Transport Tribunal last week.

APPELLANT ABSENT

MR. C. E. CORBY, trading as Corby Transport, 59 Vicarage Road, Sunbury-on-Thames, had his appeal dismissed by the Transport Tribunal in London last week because he failed to appear at the hearing.

Corby had lodged an appeal against a decision by the Metropolitan Licensing Authority refusing to grant him a B licence for two vehicles to carry general goods within 20 miles of Sunbury rail-

way station.



Airborne Aviation Services (Gatwick) Ltd., recently Airborne Aviation Services (Gatwick) Lia., recently put into service this high-lift aircraft loading truck at Gatwick Airport. The chassis is a standard Commer forward control 11-ft. 9-in. wheelbase 5-tonner and the special bodywork was built by Palmer Coachthe special bodywork was built by Palmer Coach-builder, Ltd., Hanworth, Middlesex. It is mounted on a scissors-action sub-frame, raised and lowered vertically by Edbro twin-ram hydraulic gear and is controlled from inside the cab. The tail-lift is controlled from inside the body,

York Third Axle Approved for Trader

THE Yo. k trailing axle conversion is now approved for fitting to Thames Trader 7- and 74-ton models. Announcing this, Ford Motor Co., Ltd., recommend that vehicles fitted with this conversion should be equipped with power steering and the new five-speed direct-drive gearbox which are now offered as production

The York conversion consists of a trailing axle system comprising two beams independent oscillating rocker attached to the chassis by hanger brackets and connected to the driving axle suspension through a special shackle linkage. The hanger brackets are located transversely by a tubular cross-member which gives additional strength to the unit. It is suitable for all Thames Trader 7- and 74-ton models and, when fitted, a maximum gross vehicle weight of 15 tons is permissible.

The conversion will be carried out at York trailer depots in London, Glasgow, Warrington and Corby,

NO BASIS FOR STUDY

THE idea of a study group to compare road and rail costs was rejected. in the Commons last week, by the Minister of Transport. The relativity of track costs did not provide a basis for judgment, he told Mr. Charles Mapp (Labour, Oldham East).

Municipal Contracts

Reading Building Committee is to buy four

Position le Fylde U.D.C. invite tenders by Jan. 2 for the supply of a tractor and trailer.

Hemel Hempstead B.C. invite tenders by Jan. 8 for the supply of one two-ton tipper and a vibrating roller or compactor.

roller or compactor.

Scuathorpe Corporation is recommended to accept the £3.450 tender of Johnston Bros., Ltd., Durking, Surrey, for a suction road-cleaner vehicle.

Ipswich Waiter and Drainage Committee recommends acceptance of the £731 quotation of Nice and Co., Ltd., for two Morris 5-cut, vans for the Waitetworks Department.

Rochdale Corporation is recommended to accept the tender of Shelvoke and Drewry. Ltd., Letchworth, for a fore-and-aft refuse-collection vehicle, with hydraulic hosts for bulk containers, for £3.250.

with hydraulic hoist for bulk containers, for £3,250, and for an hydraulic trolley for £110.

and for an hydraulic trolley for £110.

South Shields Transport Committee has accepted the tender of Transport Vehicles (Daimler), Ltd., for four bus chassis with Gardner 64.W engines and constant-mesh gearboxes at £2.481 each, and the tender of Chas, H. Roe, Ltd., for four composite 63-seater bus bodies at £2.484 each. The Metropolitian Water Board Works and Stores Committee proposes to order the following replacement vehicles, 19 Austin 10/12-cost, vans; three Commer 5-ton forry, eight Karrier Bantam 2-ton tippers; one Karrier Gamecock 1-tonneer: four Karrier Gamecock double-cab 3/4-ton tippers; four Commer 6-ton tippers; and one Commer 7-ton tippers four Commer 6-ton tippers; and one Commer 7-ton tippers.

Hastlans Motor Vehicles Committee has accepted tenders from Coombs Motors, Ltd., for an ambulance on a 25-cwt. Bedford chassis for £1,955 and a Bedford/Lever Lancastrian Minor ambulance for £1,269. The Highways and Works Committee recommends replacement of a 10-cwt. builder's ruck: a 4-ton diesel tipping truck: The Public Hygiene Condiesel tipping truck. The Public Hygiene Condiesel tipping truck. The Public Hygiene Condiese tipping truck and a 3-for truck; a 4-ton diesel tipping truck. The Public Hygiene Condiese tipping truck. The Public Hygiene Condiese tipping truck and the standard tipping truck and the standard tipping truck. The Public Hygiene Condiese to the replaced by a Shelvolke and Drewry Shocu-yd. "Pakamatic" vehicle at an estimated £4,200; The Water and Fire Brigade Committee has approved the purchase of a 10/12-cwt. van at approximately £480. approximately £480.

Pickford Decision Reserved

HE Deputy Northern Licensing Authority, Mr. G. W. Duncan, at Stockton-on-Tees last week reserved his decision on an application by B.R.S. (Pickfords). Ltd., for authority to add an articulated unit (tractor, 12 tons 2 cwt., and trailer, 15 tons) to their Stockton A licence. Mr. T. H. Campbell Wardlaw, on behalf of the objectors, had submitted that there was no case to answer.

The Deputy Authority said he would like time to consider the submission. If he decided there was no case for the objectors to answer, that would be an end of it. If, however, he decided there was a case, the onus would then rest on the

objectors to prove otherwise.

Mr. A. W. Balne, for Pickfords, said the company was making the application because of the increased demand in the Stockton area for vehicles capable of carrying 45 to 60 tons. The demand was so great that it was often impossible to supply a vehicle when it was needed.

Mr. Wardlaw said that Pickfords did not have a good case. There was a very simple principle involved, he said. The application was for a special type of vehicle to carry heavy loads. When considering this type of vehicle one had to

look at it more on a global than a local basis. That was why there were sometimes objections from as far afield as Manchester and Wales to applications made in Stockton.

CONTAINER TRAFFIC IS RESUMED

UNRESTRICTED container traffic was permitted to pass through Dublin port last week with the ending of the five-year dispute over the traffic.

Dockers at the port had refused to handle the containers unless they were given guarantees regarding continuity of their employment. After long negotiations the dispute was settled on Decemher 9

LICENSING HOVERCRAFT

THE Government has not yet decided how the use of hovercraft should be regulated. This matter was, however, under consideration, said Mr. C. M. Woodhouse, Parliamentary Secretary to the Ministry of Aviation, in the Commons last week. He had been asked by Sir Wavell Wakefield when he expected to be able to make a statement about the licensing of these craft for the carrying of goods and passengers.

Goods on Pallets Give the Maximum Payload

BY use of standard 40 in. by 40 in. pallets and by designing cartons to match the pallets, H.P. Sauce, Ltd., ensure that a full payload is carried by trunking vehicles carrying bottled and canned goods on factory-to-depot runs. It is normal for the weight of the load to be within 1 cwt. of the rated capacity.

This information was given last week by Mr. G. L. Eades, transport manager of H.P., when he read a paper on "Distribution" at a meeting of the Industrial Transport Association. Birmingham Division, of which he is a member.

Pallet loading was introduced by H.P. in 1950 and was now applied to trunking movements of all finished products from the main factories to 18 redistribution depots, said Mr. Eades.

A Lansing-Bagnall fork-lift truck was employed in conjunction with an hydraulically operated loading-deck ramp, the angle of which could be varied to match the height of the vehicle platform. By this means 14 pallets, representing a payload of 15 tons, could be loaded in 14 min. by two men.

For redistribution from the company's main depots in London. Birmingham, Wigan and Selby, a type of 7-ton van was favoured having sliding cab doors and rear roller shutters. The opening of the left cab door was sufficient to provide access to at least 18 in. of the vehicle floor, and a door of this type was preferable to a body side door as it provided easier unloading of cartons by the driver's mate. Consignments were prepared by

the mate when the vehicle was on the road, in preparation for a drop.

Bulk deliveries had been facilitated, said Mr. Eades, by the formation of voluntary buying groups, who purchased goods at an increased discount. Channelized distribution could substantially reduce the number of road vehicle movements, but some producers objected to the scheme because it could lead to trading information being given away to competitors

The premises of wholesalers were often completely inadequate for the volume of road traffic handled, and long delays were frequent. Redistribution had been increasingly handicapped by traffic congestion and parking restrictions.

Rail Delivery Time Doubled

Referring to rail-borne traffic earlier in the paper, Mr. Eades said only small consignments were now sent by rail and delivery time had approximately doub ed since the early 1930s. Dispatch by rail necessitated the use of cartons of heavier fibre-board, which added to cost, and the cartons were less attractive for display

In reply to a question during the discussion. Mr. Eades said that the average number of deliveries in a day's run to retailers' premises in congested areas was now 30 to 32, compared with an average of 42 to 45 ten years ago, and delivery time had been increased by about two hours. Loss of vehicle time caused by accidents was small.



A.E.C. IN KUMASI

Ghana, her independence assured, is on the move. There's tough work to be done and A.E.C. heavy goods vehicles are more than handling their share. In the dense forest areas around Kumasi; in the manganese mines and on construction works of the giant Tema Harbour, the A.E.C. badge is ever-prominent. Wherever arduous conditions prevail, in Ghana as in Britain, A.E.C. is first choice for performance and dependability.

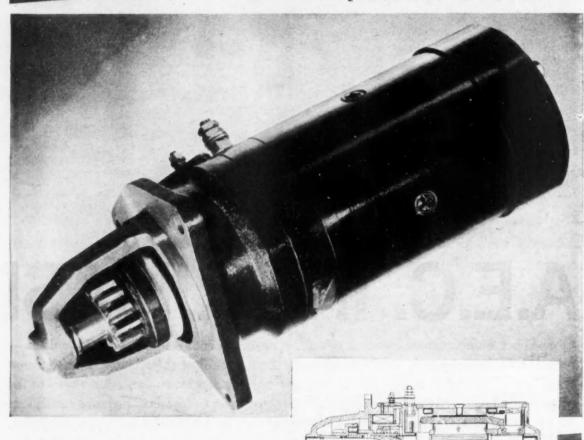


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Angels and Ministers

COMMENTARY

by JANUS

AGGIE'S brother Cromwell carefully fitted the bottom of his glass into the wet ring he had left when he picked it up. "I think I have found just the right present for Lottie," he said, "and with a niece like ours that really is something. She is such a diehard realist that she refuses all imitations, as they say in the advertisements."

"I can understand what you mean," I said. "One thing about Lottie is that she has always had a strong sense of what is right and what is wrong. I remember taking her to see Cinderella some years ago, and she complained all the way home because the vehicle that took Cinderella to the ball had not been properly registered, licensed and

"Then the year after that, we took her to see the Babes in the Wood," said Maggie. "There was a very sad little scene when they wandered off down the road hand in hand.

was that the babes had not done their kerb drill, and

deserved whatever was coming to them."

"For heaven's sake keep her away from Dick Whittington," said Cromwell, "or she will be asking how he can be expected to turn again in a one-way street."

It made a lump come in my throat. But all Lottie said

"At least she is on the side of the angels and Mr.

Marples," I said.
"Who might well have contributed a foreword to my

gift," said Cromwell.

"It sounds as though your present is a book," said Maggie, "in which case I ought to warn you that Lottie goes through every book she receives with a fine tooth comb to spot the errors.

"The things she came up with after reading Lady Chatterley's Lover certainly surprised me," added Maggie.

"That sort of thing will not happen in this case," said Cromwell. "So far from making mistakes, the book I have chosen is dedicated to putting them right. It is a corrected version of the old Arabian Nights."

46 I HOPE the opportunity has been taken to put the moral attitude right at the same time," I said. "My version, or what I remember of it, condones and even approves of behaviour that would certainly call for a good deal of questioning down at Scotland Yard."

"I refuse to believe it," said Maggie. "I have always had a warm spot for the Arabian Nights and Ali Baba is

my favourite character in fiction."

"Not if you look into the matter closely," I said. "Ali Baba was certainly not a wholly admirable character. For example, his reaction to the discovery of a cave-full of treasure was to take away as much as he could carry. Not an unnatural thing to do perhaps, but hardly a shining example to the young."

"The stuff had clearly been pinched," Cromwell agreed.
"It was Ali Baba's plain duty to go to the police."

"And another thing," I continued. "What sort of security device is it that can be broken down merely by repeating two or three words?"

"And just the three words that you would expect any hoodlum to use," said Cromwell. "'Open sez me,' indeed."

"Suppose you tell us how Lottie will find the story when she reads it in the book you are giving her," Maggie suggested.

"In the first place, the events are brought up to date,"

Cromwell explained. "Ali Baba is a poor but honest owner-driver, carrying hardcore on a short-term B, with a tipper bought on the never-never."

"In other words, one of the new-style industrious desti-

tute," I said.

"They do not work any harder or come any poorer these days," Cromwell agreed. "Ali Baba's story can be put in a few words. He stumbles on a warehouse crammed with loot, tips off the law, and receives a reward from the Road Haulage Association, plus a further sweetener from a grateful insurance company."

"He does not sound a bit like the Ali Baba I used to know," said Maggie. "Now if you could do the same thing with Aladdin I should not care at all. He has never seemed a very sympathetic character. Everything comes to him too

easily."

"You may safely take it in any case that the clause about living happily ever after did not apply to him," I said. "He may have been a teenage tycoon, but he was riding for a fall. For one thing, there was union trouble for him, what with slaves who seemed to wait on him all day and all night, in flat defiance of the Catering Wages Act, and what with the disputes between them on demarcation and restrictive practices that seemed likely to arise any time."

"Then you will like the story in Lottie's book," said Cromwell, "It gives a far more balanced picture of his career. Aladdin—of the Twahkey Removal, Storage and Chinese Laundry Company—has the outsize job of moving an entire palace as an abnormal and indivisible load. Whatever form of propulsion he uses, he certainly does not keep to the appropriate regulations. But fate catches up

with him before too long."

"I cannot wait to hear it," said Maggie,

"No sooner has the palace arrived at the appointed place," said Cromwell, "than Aladdin receives a visit from an official asking whether he has planning permission to build there; from a second official who hands him an assessment for rates; from a third official with a summons requiring him to show cause why he should put up a palace right across the M1; and from a fourth official wanting to know whether he received permission to carry the traffic either from the Licensing Authority or from the Air Transport Licensing Board."

"And in the end," I said, "I suppose he decides that it is best to stick to dry cleaning and let somebody else marry

the princess.

"Are all the stories in your new book like that?" asked

Maggie.

"There are no end of them," said Cromwell. "After all, they were supposed to last for a thousand and one nights. Unfortunately, we have only a few minutes more to closing time. Otherwise, I should love to tell you in detail about the wonderful international adventures of Sinbad the Haulier, and especially his thrilling encounters with those mythological creatures the Infrastructure and the Fourchette. And I can think of nothing better I should like to do after that than narrate the story of the dreadful consequences that followed when the Transport Tribunal released the Lebus djinn from the bottle, and how it took three grave justices with bell, book and candle to get it back again."

"Talking of gin in a bottle," I began....

GARRINGTONS' UNIQUE Solves Multiple Transport



Striking Improvements Efficiency Result from Re-equipment of

One of the diesel fork-lift trucks engaged on longer hauls is seen here on the entrance drive to the Bromsgrove works together with a Leyland Comet artic and an Octopus from a fleet composed largely of Albion, Leyland and Dodge vehicles.

Most well-run, well-maintained transport fleets induce a certain amount of personal pride and enthusiasm among driving staff. Indeed, many establishments are measurable by the attitude of personnel, both to the job they are doing and the vehicles they are working. Especially is this so with C-licensed road transport.

To what Olympian heights does the measure rise, though, when the driver of a fork-lift truck, working amidst all the grime and abrasions of a high-pressure forge plant, asks in all seriousness for a tin of expensive polish?

When this happened recently, no one on the transport side at Garringtons, Ltd., of Bromsgrove, Worcestershire, was in the least surprised. The polish was duly supplied and the truck shined. The amazing thing is that, regularly polished as it is, it hardly stands out among the other 40 fork-trucks.

Garringtons, Ltd., part of the Guest, Keen and Nettlefolds group, are the largest manufacturers of forgings in Europe. The Bromsgrove plant, greatly extended and modernized since the war, produces high-quality forgings for the motor vehicle, aircraft, shipping, mining, agricultural and other industries, and, with a new and up-to-theminute press forgeshop, now has an estimated capacity of 132,000,000 forgings a year. Additionally, there are extensive divisions manufacturing quality hand tools, agricultural implements and, more recently, induction heating equipment following developments in this field originated by Garringtons' own needs.

For an undertaking of this size and scope, transport, both external and internal, is the most vital ancillary to the actual processes of production. Something between 7,000-9,000 tons of forgings leave Bromsgrove and the other Garringtons' plant at Darlaston each month for all parts of Britain and the world. All of them are carried on artics operated under C-hiring or contract-A licences, mostly by two hauliers. At Bromsgrove 18 tractive units, mainly Leyland, Albion and Dodge, with one Bedford, work 35 Scammell semi-trailers. At Darlaston four Leyland and two Bedford tractive units operate 11 Scammell semi-trailers. There are also one 16-ton Leyland and two 8-ton Bedfords.

To a large degree, of course, the control of this fleet rests with Garringtons. Strict control over working, particularly driving hours, is maintained.

The decision to reassess and fully reorganize the internal transport set-up was a result of the coincidence of greatly increased production with the need to replace many of the existing fork-lift and platform trucks in 1958. Neither the trucks themselves, due to age, nor the existing methods of organizing their work and maintenance were in step with the overall expansion of the company and its output of forgings. Any hold-up or interruption of Garringtons' production lines is defined as the responsibility of whichever of the numerous departments involved in the operation is seen to have caused it. All too often, lack or failure or unreliability of internal movement facilities was to blame

The outcome of this was a highly detailed investigation of the present and future handling requirements of the plant by the transport manager and the chief work study engineer. This was followed by a comprehensive report, in which the broad proposals were that: (a) pallets, containers, tote boxes, etc., gradually be standardized; (b)



SCHEME Problems

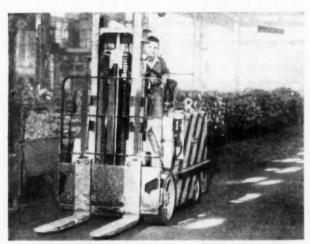
in Labour Relations and Working Major Reorganization and Generous Internal Transport System

> Each driver is allocated one particular truck and there is a strict rule that it may be driven only by the man whose name is prominently displayed upon it.

Control of the second s

mobile handling equipment renewal be implemented on a carefully planned basis; (c) a co-ordinated and centrally operated system of materials handling covering the whole company be established.

It was estimated that the greater efficiency resulting from implementation of these proposals would amortize the initial cost in about seven and a half years.



(Above) All fork trucks work within strictly specified areas and mostly on specific jobs within the department.

(Left) An electric hoist, a well laid out charging room and a strictly enforced timetable keep time of battery changing down to 6}, minutes.

(Right) One of the 15 new Stacatrucs loading a semi-trailer. Between 7,000-9,000 tons of forgings leave Bromsgrove and Darlaston each month—all on artics. The capital cost was, indeed, very high, allowing as it did not only for a new fleet of the most modern fork-trucks, but for the considerable amount of ancillary equipment and facilities necessary for their 100 per cent. functioning and maintenance. Nevertheless, the plan was authorized by the management without financial paring.

The absence of parsimony in the establishment of the whole mechanical handling system is, indeed, mainly responsible for its immediate and continuing 100 per cent, operational efficiency. There has been no "learning as we go," nor has the need for any major revision of either equipment or methods made itself apparent to date.

From initiation the set-up has been based on three main policies. These are:—

1. The upkeep of all equipment at 100 per cent. operational efficiency, through precise work/maintenance schedules

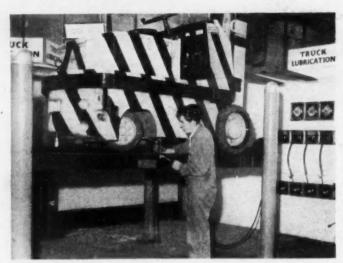
Very careful allocation of handling equipment and personnel to specific tasks in the various departments, with their ultimate control almost entirely in the hands of the transport department.

3. The build-up of status, and consequently of enthusiasm, responsibility and pride, among the mechanical handling equipment drivers and associated personnel.

Although policies 1 and 2 naturally come first, and remain of material priority, to my mind it is attention to the third which has ensured the complete success of the enterprise. The most elaborate and costly mechanical



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Truck lubrication is carried out in the superbly equipped garage at Bromsgrove and all maintenance follows a precise timetable.

handling set-up in the world will not work effectively and economically without the goodwill and co-operation of its personnel. All too often management tendency in establishing such a set-up is to lavish everything on the machines and little or nothing on the men who are to operate them. Only when the new equipment fails to measure up to anticipations do personnel get consideration, and often by then the working climate does not induce the right sort of consideration.

Garringtons did not make this mistake. Mindful that a fork-lift truck costs as much as a top-bracket car, the first step they took was to inculcate in drivers a sense of personal pride in, and responsibility for, their machines.

In this respect the changeover to new equipment helped a good deal. It was possible to allocate each driver one particular truck, and there is a strict rule that no one other than the driver whose name is prominently displayed on the truck may drive it.

All the fork-lifts employed on routine shift work are painted in bold black and yellow stripes, and this livery is carefully maintained. As a result there are intensive efforts by drivers to protect the exterior as well as the working parts from undue wear and tear—not easy in the conditions under which many of them work.

Every driver also has a personal internal-transport driving licence, in the form of a plastic-protected booklet, which must be carried when working, and which must be produced on demand to the supervisory staff and the safety committee. These licences contain particulars of the driver and his truck, medical examination dates, details of a merit allowance scheme, safety rules, and a space for driving offences to be recorded. Before a licence is issued a driver must pass a medical examination and a competence test in fork-lift truck operation (the two chargehands are qualified instructors).

Undoubtedly the merit allowance scheme is a major factor in the day-to-day efficiency of drivers. The scheme works simply, on a points basis. Two hundred points are allocated to each driver each fortnight, and if no more than 18 are lost a driver qualifies for the maximum merit allowance, which is calculated on a rate/hour basis.

The 200 points are split under four headings: timekeeping (25 a week); care of truck (90 fortnightly); absence without justification (10 weekly); general conduct and behaviour (20 weekly).

The assessment of care of truck is made during the fortnightly routine service by the Garage Foreman and Internal Transport Foreman with the driver given the opportunity of objecting to any deduction of points.

The drivers' record cards run over 12 weeks, with an additional lump sum merit award given to the driver with the highest number of points over this period. An up-to-date chart of the ratings is kept where drivers clock-in at the battery-charging room.

Drivers with fewer than 19 points lost in a fortnight qualify for the full merit rate; with from 19 to 26 points lost for two-thirds of the rate; with from 27 to 48 points lost for one-third; and with 49 or more points lost, for no merit award. The scheme, very carefully explained to all concerned in it, works well, and has union support.

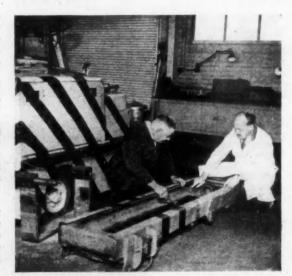
Examples are that no one was consistently late in 1960, and that there has been only one instance this year; that absenteeism has almost vanished; that the safety record has been considerably improved, and that the failure to transport can very rarely be held responsible

for any upset of production lines.

Backing up and backed by the personnel scheme is the efficiency and comprehensiveness of the mechanical and electrical maintenance systems. These Garringtons took immense care to build "into" the establishment.

At present some 40 fork-lift trucks are operated, plus 20 other mechanical handling devices such as platform tractors, tugs, cranes, and gadgets particular to the needs of a forge. The complement of fork-trucks will eventually total 48. The transport manager, Mr. Vic Ashley, and his staff are additionally responsible for 43 company cars.

Of the fork-lifts, 15 are new Stacatruc 624Es of 6,000 lb. capacity, supplied by I.T.D., Ltd., and 14 are new Conveyancer E6-24s also of 6,000 lb. capacity, supplied by Conveyancer Fork Trucks, Ltd. The eight new trucks needed to bring the fleet to its full complement will be Stacatrucs.



Maintenance procedures are carried out at 14-day, 3-month and 6-month intervals. When collecting his fork-truck the driver must satisfy himself that any necessary work has been adequately completed before signing the job card.

The fork-lift fleet is completed by a further 10 electric vehicles, and there are two diesel-powered fork-trucks and five Yale and Towne Worksavers used for box-pallet move-

ment in the plant's marshalling areas.

Although the new Stacatruc and Conveyancer equipment is basically standard, certain modifications have been made in pursuit of additional protection. A particularly abrasive dust is common in the works and, against this dust, seals are fitted to brake drums and lifting masts. Bumpers of metal channel similar to those found on fairground "bumper cars" have also been fitted, and on the Stacatrucs

a battery housing modification has been made to improve battery charging,

using an overhead hoist.

As previously noted, all fork-trucks work within strictly specified areas, and mostly on specific jobs within a department. The dispersal and function of each truck is to be seen at a glance on a master chart covering the whole fleet, ensuring a complete picture for the supervisory staff at all times.

The value from the transport side of this type of work control is to be found not only in matters of fleet deployment and administration. Both mechanical and electrical maintenance are immensely served by a system under which precise timing of maintenance and restorative work is possible.

The maintenance side of the Garringtons establishment is perhaps

even more impressive than the condition of the vehicles themselves and the efficiency and enthusiasm of drivers; so much so that after two years' operation the same high standard prevails, and to a visitor the ultra-modern and superbly equipped garage at Bromsgrove gives the impression, in the middle, of a working day, of having just been got ready for a top-hat opening ceremony. Extensive use of bright colours and the extremely high standard of cleanliness make an immediately good impression.

Modern Garage

The garage is equipped with the most modern equipment necessary for the maintenance of both the mechanical handling fleet and a large fleet of company cars. Power-supply pipes and conduits in British Standards Institution colours add to the brightness of the decorative scheme. Oil patches have been completely eliminated by the sinking of waste tanks into the floor, covered by metal grids, and litter finds its way every time into waste bins provided at each work bench. Throughout the area wall sheets display the manufacturers' recommended maintenance procedure.

Each fork-truck is inspected every 14 days to a predetermined pattern, which works out at four trucks a day. Two spare trucks, striped in distinguishing red and black, are available to replace units withdrawn for maintenance or battery charging.

Recommended maintenance procedures are carried out at 14-day, three-month and six-month intervals, but it is the fortnightly inspection, and the immediate attention to any fault, which above all ensures the working capacity of each unit.

An interesting feature of the very comprehensive job cards raised for all types of maintenance and repair is the space for the driver's signature. Before taking his vehicle out of the garage he must satisfy himself that any necessary work has been adequately completed—another "winner" in terms of labour relations.

Of equal if not more importance than mechanical maintenance in the operation of electric trucks, is the upkeep of the batteries. Here again Garringtons would seem to have evolved a foolproof system.

The basis of this is a well-laid out charging room with an electric hoist which keeps changeover time to a minimum, plus a stringently enforced timetable for every battery

change.

The work of the mechanical handling fleet is split into two shifts, and three batteries are allocated to a pair of trucks—one working the day shift, the other the night

shift. An alpha-numerical code links trucks with their batteries.

The battery-changing-charging system is so arranged that no battery is employed for more than 6½ consecutive working hours, and is given at least 12 hours on charge between working periods.

Each day the day-shift trucks change batteries on a very precise schedule between 1.30 p.m. and 3.36 p.m. The night-shift change takes place between 1 a.m. and 3.30 a.m. Time allowed for each battery change is 6½ minutes, and it is an indication of the high standard of timing and driver co-operation that the schedule is rarely upset, even though many of the trucks have up to half a mile to travel to the charging room. One physical aid in this direction is the use of a plate showing the exact time for

battery change affixed to each truck's mast.

Also of considerable value is the construction of a canopy attached to the outside wall of the charging room. This provides a covered parking space for trucks when not working, and enables their batteries to be charged *in situ* via cable and conduit through the charging room wall. Indeed, so successful has this system proved that the facility has been extended, with a cable drum extension from chargers to maintenance shop to enable *in situ* charging during routine maintenance.

It is a fact that there was some considerable scepticism at first, particularly among drivers, as to the efficiency of the battery maintenance system, and possibly about other aspects of the establishment. It has now been appreciated, however, that the system works 100 per cent., and the fact that the machines in which they can take a personal pride are always fully powered and entirely reliable has won drivers over completely.

There seem, to the onlooker, to be three main factors behind the success of Garringtons' internal transport.

One is the vigour, drive and enthusiasm of the transport manager, Vic Ashley, who, with generous management backing, has been chiefly responsible for its creation, and is now the spring from which its day-to-day functioning derives direction and energy.

The second is the material liberality with which the establishment was planned and created.

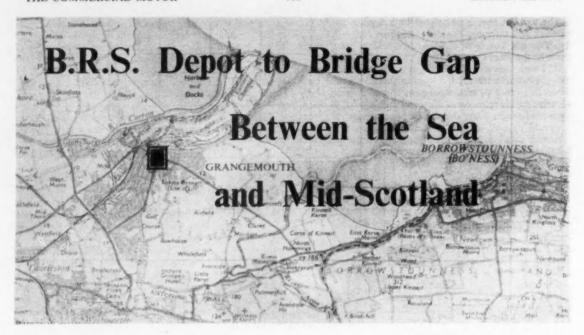
The third is contained in what may be thought rather a hackneyed word in this modern age, but one which nevertheless very apparently applies—teamwork.

The full mechanical handling and transport complement is 61—three chargehands (one on nights), 39 fork-truck drivers (16 on nights); five mechanics (one on nights) one apprentice; two car washers; one garage mate; a lubrication bay attendant; three battery room attendants (one on nights); an electrician; two van drivers; and three chauffeurs.

K.B.



Transport manager Mr. V. G. Ashley, whose drive and enthusiasm is the spring from which the internal transport and mechanical handling system derives its direction and energy.



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New Grangemouth base "an island suspended over thousands of feet of mud"

By Norman H. Tilsley

T precisely five minutes past noon on Wednesday, December 13, the Provost of Grangemouth, Mr. Robert Brown, pressed a large electric button. To the whir of electric motors, several "up and over" steel slatted doors rolled open; an immaculate B.R.S. vehicle was driven into the traffic shed (breaking a white tape in the process) and Scotland's newest road link with the sea, and with the Common Market if it comes about, was forged.

The importance which B.R.S. place upon the event can be gauged by the fact that not only did their general manager, Mr. T. G. Gibb, travel from London to be present, but he was accompanied by the Transport Commission's docks chief, Sir Robert Letch, and several members of the Board.

Conveniently situated within a few hundred yards of the vastly expanding docks at Grangemouth (which is fast becoming Scotland's second port), the depot was no easy task to build.

Construction in the shore area is always difficult—tide from the Firth of Forth affects the water level in the soil from a depth of two feet down. Thus the substratum consists of silty clay to a fair depth which, of course, is unreliable for conventional building purposes.

To combat this, a system of piling and edge beaming to support the main buildings was decided upon by the architects and the work, which began in May of this year, was finished in record time, taking into account wet weather conditions, which necessitated continual pumping in order to lay the foundations. The depot is virtually suspended, like an island in a sea of mud. No wonder that the completed site cost the B.T.C. something in the region of £90,000.

The depot will eventually replace two existing B.R.S. bases at Grangemouth and Falkirk. There is ample room for 46 vehicles, and several Pickfords tankers, carrying petrol and oil from the vast refineries close by, will use the site as a base.

There are three main buildings, the largest of which is the traffic shed (200 ft. long by 90 ft. wide). The 18,000 sq. ft. area provides ample warehousing. Along the west side is a large raised loading bay. which allows for through working from outside to inside, the vehicles themselves being adequately protected from the elements by a large canopy. The roof. consisting of asbestos sheeting interspersed with translucent "windows." allowing for ample lighting, is supported on a portal frame; auxiliary lighting is provided by 30 pairs of fluorescent strips. A mess for the drivers, and a toilet and washing facilities, is situated on one side of the main doors, a storeroom on the

The service station, where normal

running maintenance and repairs will be carried out (major overhauls, etc., will still be carried out at the main Linlithgow maintenance base), has three pits and one standing bay. There are facilities for pressurized lubrication.

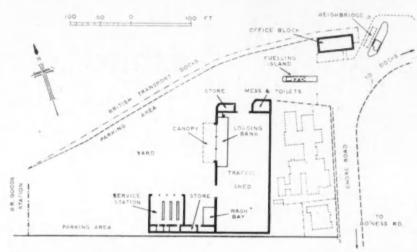
The general office block—a proprietary prefabricated unit—is situated alongside the main entrance. It contains a large office for the depot manager, Mr. W. H. Mack (he was appointed to this post at the beginning of the year), and a telephone exchange and inquiry office. The general office, which has accommodation for a staff of 12, has a window running along the whole length of one wall, and giving a view of the whole depot.

Beneath the fuelling island are tanks for 2,500 gal. of fuel. The Commission have still to build a weighbridge, capable of carrying a 50-ton load, and they hope eventually to build a road through the perimeter fencing leading directly into the docks, which will have the effect of keeping the main dock road free of heavily laden traffic.

After the official opening of the depot, the guests—there were about 120 in all, including B.R.S. officials and, most important at this "showing the B.R.S. flag" ceremony, representatives from customer firms—were conveyed to the Leapark Hotel in Grangemouth, to eat a fine luncheon and to drink toasts to, respectively, "the Queen," "the Burgh of Grangemouth," and "British Road Services."

The lunch was presided over by Mr. J. P. Young, the Scottish Divisional Manager, who afterwards summed up the whole project to me in these few words: "It was an ordinary railway dock. The customers were demanding a road link, and B.R.S. just stepped in."

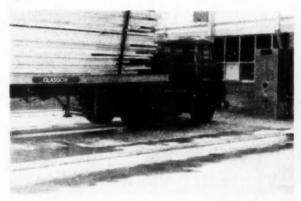


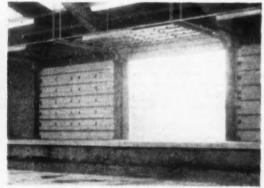


(Above) The main entrance to the depot. Vehicles will normally carry general traffic from the docks to main trunk depots for onward transhipment.

(Left) A little over 100 yd. from the main Grangemouth-Bo'ness road, the depot is ideally positioned for the docks and the railway. The plan shows the adequate parking area to accommodate B.R.S. "general" vehicles and any of Pickfords that may be based there.

(Below) The "up-and-over" steel slatted doors give access to the loading bay. There are five doors, each operated by an electric motor.





(Above) The service station has three inspection pits. There is room for a standing vehicle, Extensive servicing facilities include pressurised lubrication equipment. A system of forced air heating is installed, and there are comprehensive storage facilities for materials and equipment, and a covered vehicle wash-bay.

(Right) A view of the interior of the traffic shed. Translacent plastics sheets incorporated in the roof, together with strip lighting, ensure excellent interior light. The interior loading bank has accommodation for eight vehicles.





Highly Developed Maintenance System Ensures Good Results With Large Dublin Fleet

In view of the fact that the availability graph is not only a constant reminder of "the state of the market" but is also by way of being a key to the efficiency of the maintenance system, it is surprising that this feature is to be seen in very few road transport depots. Particularly interesting are the availability percentages calculated from year to year for they reflect with clarity the success, or otherwise, of those charged with the acquisition and maintenance of the various units in a fleet.

For this very reason, Mr. A. G. Milne, road transport engineer to the huge Guinness organization in Dublin, maintains comprehensive statistics. They show that for over a decade the company's vehicles at the St. James's Gate Brewery have been ready to carry out traffic duties for 96 per cent. of their time.

Unique Fleet

This is a fleet that appears to have almost everything. It includes a wide variety of transport units, a bulk grain carrier, a display caravan, a breakdown wagon (largely built-up in the garage itself), a bus for the brewery-port service which carries the Guinness shipping workers, several representatives' cars, and even a scooter for the inspector to examine pressurized casks at the customers' premises. All of this finds ample work for the garage staff.

On the transport side, the keynote in vehicle selection is adaptability, for which reason bulk tankers are now a thing of the past so far as the Guinness organization is concerned. This policy was the

subject of comment in a review of the fleet which appeared in *The Commercial Motor* two years ago. Greatly increased use is now made of platform vehicles with trailers which will carry casks or transportable tanks. So equipped, each unit can be given a full week's work on either city, local or long-distance journeys.

As a matter of policy, the company require chassis giving a low loading line so as to keep handling effort at a minimum. Likewise, the aim is to have cabs that provide good heating and ventilation with, at the same time, the best practicable sound insulation and easy access for the driver.

For economic reasons the practice is to build all bodywork at the garage, even for the numerous specialist vehicles employed. The breakdown vehicle already mentioned is a case in point, the chassis being acquired second-hand and suitable equipment fitted. The crane, which was bought out, has a turret mounting so that it can turn a full circle. To this the department has fitted an 8-ft. jib extension which, among other things, will enable the large transportable tanks to be removed from a broken-down vehicle.

Little Wear

Over recent years trials have been carried out with the use of low viscosity oils, coupled with engine temperature control, in consequence of which average figures for cylinder wear have been reduced by 2½ times. Particularly good results in this connection have been achieved with the 18 heavy long-distance oil-engined vehicles where the highest

Guinness Is Always At Hand

Bodybuilders putting the finishing touches to a garage-manufactured cab before it is fitted to a lorry, in the workshops at St. James's Gate Brewery, Dublin.

readings up to 250,000 miles show a cylinder wear of only 0.003 in. All the heavies reached this stage without requiring reboring and one topped 284,000 miles without overhaul.

Especial care is taken in the matter of injector maintenance, not only to ensure efficiency, but also because the public relations aspect makes it important that the Guinness vehicles shall not emit black fumes.

Close attention is given to tyre maintenance, the objective being for the tyre fitters to inspect every cover each week. Initially the tyres have an average life of about 35,000 miles, but because of the care with which they are maintained, two remouldings are normal, each giving a further 30,000 miles.

Fluorescent Paint

To supplement the extensive safety equipment that is already in use on the vehicles, wing tips have been marked with fluorescent white paint whilst warning signs on the long-distance units are also given fluorescent treatment as well as being illuminated during the hours of darkness.

The staff at the Guinness garage numbers 65, which includes 13 mechanics, nine bodybuilders, three painters, two electricians and two tyre fitters as well as a number of clerical workers, who maintain a comprehensive recording system. The success that has been achieved in maintenance is reflected in the fact that units in the Guinness transport fleet, which used to be depreciated over five years, are now run down financially over eight years. And in actual fact, of course, many of them still have plenty of useful life left at the end of that period.

The practice of keeping maintenance systems under constant survey obviously pays good dividends.

Planning for Profit

Passenger Vehicle Operation Aspects of Running Discussed Here and

Aspects of Running Buses Are
Discussed Here and Average Costing
Given for 31- and 41-seater Single-deckers

DETAILED costings relative to the operation of a 14-seater bus averaging 600 miles a week, were given in this series on November 17. Requests have now been received for similar information concerning larger vehicles,

although still limited to single-deckers.

In view of the difficult period through which the road passenger industry is passing, the opportunities for successful operation, particularly by a newcomer with limited resources, must undoubtedly be few. Nevertheless, would-be operators with a desire to run their own businesses still exist and, with the necessary ability and perseverance, can still continue to build up successful businesses, as was shown in the story published on December 8 of a private operator based in the East Midlands.

The key to that operator's success is revealed in the following comment. Passenger operators are in business to provide a service. If the travelling public are prepared to pay the fare they have a right to be carried, no matter how inconvenient

any particular requirement may be to the operator.

Translated into day-to-day working, the execution of such a maxim will inevitably entail long and irregular hours of work for the operator. In addition to whatever technical experience and abilities he may have in passenger operation, he must have a flair for dealing with the travelling public, no matter how exasperating any particular emergency may seem to be. And the operator should also be capable of instilling into his staff a similar unruffled approach to their daily work.

The difficulties which at present are being experienced in maintaining bus services in rural areas are under review by the Government following the report of a committee set up for that purpose. Whilst this particular problem is considered to be the product of a number of factors, the chief of these is recognized to be the increase in private transport. Moreover, responsible estimates indicate that the growth of private transport will continue.

This increase in private transport, however, could be considered to be comparatively uniform throughout the country and not peculiar to rural areas. But because of the already limited number of passengers travelling, the adverse effect on

rural bus services is both more immediate and disastrous in relation to overall

profitability.

However insoluble the present problem of the maintaining of rural bus services may seem to be, without the introduction of further problems inherent in subsidization, opportunities for successful operation in other areas still exist as revealed by applications for new licences to the Traffic Commissioners.

Despite the fact that this country is already highly industrialized, new industrial and residential areas continue to be set up and developed, with an obvious need for the provision of adequate transport services from the

outset.

Dealing briefly with the legal aspects of public service vehicle operation, for licensing purposes such operation is divided into three groups. These are termed stage carriage, express carriage and contract carriage. Stage carriage is,

in fact, what is commonly referred to as a bus service, with a public service vehicle conveying passengers at separate fares.

If none of the separate fares is less than Is. (or such greater sum as may be prescribed) it is legally termed an express carriage, and more commonly referred to as an express or limited stop service. Contract carriage is the legal terminology for private hire work where a contract is implied for the hire and use of a complete bus or coach, in contrast to the carriage of passengers at separate fares.

In the Traffic Commissioners, it is a prerequisite that a public service vehicle licence must be obtained for the vehicle no matter which of the three types of operation—stage, express or contract—is undertaken. The driver, and conductor if carried, must also hold a licence. If the Traffic Commissioners consider that the applicant is not a fit person to hold a p.s.v. licence, having regard to his conduct, they may refuse his application. But before a p.s.v. licence can be granted a certificate of fitness must be in force in respect of the particular vehicle. (This requirement, however, does not apply to vehicles with less than eight seats).

The varying fees and periods of validity for licences in connection with passenger operation are as follows: Certificate of fitness, £5 10s, for from 1-7 years (as determined by the Certifying Officer); public service vehicle licence, £6 for one year, and road service licence, £1, normally for three years.

Typical operating costs for a 31-scater bus are now given. It will be assumed that it is fitted with a petrol engine, and that the initial outlay is £2,900, inclusive of both chassis and body.

body.

Adopting the same basic principles employed throughout this series and in *The Commercial Motor* Tables of Operating Costs, the ten items of costs will be segregated into two groups—standing costs and running costs—each consisting of five items.

The five standing costs are shown as a cost per week derived from a division of the annual cost for each particular item by 50, and not 52, so as to allow for two weeks per annum when the vehicle may be off the road, either for major overhaul

(Continued on page 704)



This Bedford 4×4 chassis with a special light alloy body is used as a transmission line bus by the South of Scotland Electricity Board whose verritory stretches from Fife to Dumfeies.

This 3,600-gal. tanker was built by Andrews Bros. (Bristol), Ltd., for B.R.S.) Pickfords, Ltd. It will carry caustic soda liquor. The tank, which is mounted on an A.E.C. Mammoth Major chassis, is insulated and skinned in light alloy.



or drivers' holidays. It will be appreciated that in the case of a vehicle being employed on a bus service, i.e., a stage carriage, the operator will be bound by his licence to maintain the service throughout the year, so that in practice a replacement vehicle would be required for the period the original vehicle was off the road.

In addition to the annual duty of £17 10s, payable on hackney carriages of this seating capacity, an annual proportion of p.s.v. licence duty fees would have to be met. The total licence duty payable would then amount to £25 6s, a year, the equivalent of 10s, 1d, per week

In contrast to the national wage rates, as laid down by the Road Haulage Wages Council, which must be paid as a statutory minimum to all drivers of A and B licence goods vehicles, there is no comparable overall national rate for drivers and conductors of passenger vehicles. In this instance it will therefore be arbitrarily assumed that this particular bus is operated on single shift, as would probably apply with the small operator, and that the combined cost of wages paid to driver and conductor for a basic week is £21 18s. 4d.

The accommodation provided by small bus operators for their vehicles can vary substantially from being left out in the open to being housed in a heated garage. It will be nominally assumed here that the respective cost of rent and rates will be the equivalent of 15s, 9d, per week.

The annual premium for insuring this 31-seater is reckoned at £89 10s., made up of a basic premium with appropriate additions relative to seating capacity and excess value. The equivalent standing cost per week in respect of insurance is therefore £2 3s. Interest charged at a nominal rate of five per cent. on the initial outlay of £2,900 would add the equivalent of £2 18s. Id. per week.

The total for these five items of standing costs, on the assumption of single-shift working, would therefore be £28 5s. 3d. per week.

Dealing now with running costs, it will be assumed that the average rate of fuel consumption for this 31-seater, when fitted with petrol engine, is 8 m.p.g. With fuel purchased in bulk at 3s. 10d. per gallon, the resulting fuel cost per mile would be 5.75d. Lubricants are reckoned to add 0.22d. per mile.

With a set of tyres costing £170, tyre cost per mile would be 1.02d., allowing for an average mileage per set of 40.000. Maintenance adds 3.26d. per mile, assuming that the average weekly mileage operated by the bus is 600.

To obtain the balance of the initial outlay which eventually has to be written off as depreciation, it is first necessary to deduct the equivalent cost of the original set of tyres from the price of the vehicle. A further deduction is then made in respect of the anticipated residual value, which is here allowed for at the rate of 10 per cent. of the initial price. In this instance the resulting balance of £2.445 will be divided by 200,000 (being the anticipated vehicle mileage life during the original operator's possession). The resulting depreciation cost per mile is thus 2.94d.. giving a total running cost per

mile for these five items of 13.19d. at 600 miles per week.

The addition of standing costs and running costs gives the total operating cost. But because standing costs are calculated as a cost per week and running costs as a cost per mile, it is first necessary to know the likely average mileage per week before an operating cost per mile can be determined. It has already been assumed that the average weekly mileage will be 600, and the division of the standing cost per week of £28 5s. 3d. by this figure gives a standing cost per mile of 11.31d. Added to the running cost per mile of 13.19d. appropriate to this weekly mileage, the total operating cost per mile is therefore 24.50d. The corresponding cost per week is £61 5s.

In order to afford a more ready comparison, the 41-seater selected for the purpose of this example of probable operating costs will be of similar quality to the 31-seater, and again fitted with petrol engine. The initial outlay this time will be in the order of £3.085

Because of the higher seating capacity the annual hackney carriage duty will be appropriately higher at £22 10s. But the appropriate proportion of p.s.v. licence fees will remain the same as with the 31-seater, so giving a total licence duty per year of £30 6s., the equivalent of 12s. 1d. per week.

Wages in respect of driver and conductor remain the same at a total of £21 18s. 4d. Incidentally, as with all commercial vehicles, the relationship between the wages content of the total operating cost and the vehicle capacity, whether passenger or goods, is one of the most significant factors in economic operation

BECAUSE the overall dimensions of both 31- and 41-seater will be similar, rent and rates in respect of garaging this larger vehicle remain the same at 15s, 9d, per week. The annual insurance premium, however, is increased to £115 16s, because of the higher initial outlay and seating capacity. The equivalent cost per week is therefore £2 6s. 4d.

Similarly, interest on the initial outlay is increased to the equivalent of £3 1s. 8d., giving a total for these five items of standing costs of £28 14s. 2d., still assuming, of course, single-shift working.

The average rate of fuel consumption for this 41-seater bus is reckoned at 7 m.p.g. with a resulting fuel cost per mile of 6.57d. Lubricants add 0.23d. and tyres 1.11d. per mile calculated on the same estimated mileage per set of 40.000, but with the cost per set increased to £185. Maintenance is reckoned a little higher at 3.50d. per mile.

Adopting the same procedure as before, the balance to be written off as depreciation on this 41-seater is £2,590, with a resulting depreciation cost per mile of 3.11d., still assuming a vehicle mileage life of 200,000.

To facilitate comparison, it will again be assumed that the average weekly mileage is 600. The total for the five items of running costs is 14.52d. and, at this weekly mileage, standing cost per mile is 11.48d., giving a total operating cost per mile of 26.00d. Correspondingly, the total cost of operating this 41-seater 600 miles per week would therefore be £65. S.B.

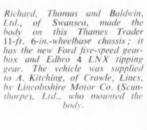
TOPICAL TIPPERS





(Above) Operated on refuse disposal to dumps outside London by A. Pannell, Ltd., of Golders Green, this tipper has a 20-cu.-yd. all-steel body with a removable 42-in. extension to provide for a total of 40 cu. yd. Supplied by Pilot Works, Ltd., of Bolton, it has Pilot F.10 tipping gear and stabilizer and is mounted on a Foden F.G. chassis of 11-ft. 10-in. wheelbase. The body is 22 ft. 2 in. long, with a 94-in. split vertical tail-door; the doors fold flat against the body, and there is a fixed 18-in. section above them.

(Above, right) Supplied to Morley Bros., Loose Hall Farm, Hitcham, Suffolk, by O. G. Barnard and Sons, Ltd., of Stowmarket, this Dodge 7-tonner has a dual-purpose body for general and bulk work. Telehoist SL.4 tipping gear is employed. As well as triple drop-sides the body has two tailboards, both swung top and bottom, one with a grain hatch, and an alloy floor. (Below) Supplied to A.E.C., Ltd., for quarry work in Spain, this vehicle has Edbro-B. and E. 15.DN dumper gear and all-steel dumper bodywork capable of tipping to an angle of 70 deg. Of 12-cu-yd. capacity, it has a removable top section, and is mounted on an A.E.C. Mammoth Major dumper chassis.







(Right) One of two York tipping semi-trailers for Revyson Agencies, Ltd., Kingston, Jamaica, for bulk sugar transport. The 20-ton-capacity light-allov body is 20 ft. long × 7 ft. 5 in. wide × 5 ft. 7 in. high internally. It is based on a York TY.17 tandem-axle tipper chassis and uses Pilot OV.15 tipping gear, A JAP two-cylindered petrol engine under the semi-trailer frame powers the independent hydraulic unit. A.E.C. Mandator V tractive units are employed.

This 1½-ton Diesel is a Good All-rounder

Economy and Performance Well Balanced in Commer Walk-Thru Van with 2.26-litre Diesel Engine

By A. J. P. WILDING

ALTHOUGH not strictly comparable with the 2-ton van with the 3-litre petrol engine tested a month ago (The Commercial Motor, November 24, 1961), the Commer Walk-Thru 1½-ton van with the 2.26-litre, four-cylindered diesel engine tested was surprisingly similar in performance and handling qualities. I had expected the relatively small diesel engine to give a sluggish performance in comparison to the 3-litre petrol unit, even allowing for the reduction in gross vehicle weight, but this was not the case. There was, of course, more noise with the diesel engine but acceleration and pulling power were in no way lacking. Suspension on the two models is little different, so the stability and standard of ride on the 1½-tonner were of the same high order as found with the 2-tonner.

The van tested was described with the rest of the Walk-Thru range in our issue of October 13. From the accessibility and driver-comfort angles the remarks included in the road test report of the 2-ton van published on November 24 apply to the same degree. Because of the diesel



Excellent forward visibility is a feature of the Commer Walk-Thru cab with its large windscreen and door window areas and low, sloping

engine, the ignition switch is changed for a battery main switch which incorporates the control for the heater plugs and starter, but all other controls are the same.

The 2.26-litre diesel engine is identical, except for minor alterations, with that available in the earlier design of Commer 1- and 1½-ton vans, which are still in production. Maximum net power output is 52.5 b.h.p. at 3,000 r.p.m. and maximum net torque is 100 lb.-ft. at 1,750 r.p.m. Transmission on all models in the Walk-Thru range is through the same design four-speed gearbox with synchromesh on the three higher ratios. Gear changing was reasonably easy and in fact it was possible to make a quicker change with the gearbox on the van tested than with that on the 2-tonner.

Optional equipment on the van was the same as on

the 2-tonner except that only single heating equipment was fitted. Twin heaters are the optional fitting, but the single unit kept the interior adequately warm during the tests.

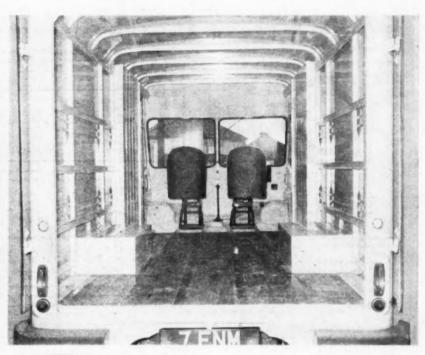
Unladen, the 1½-ton van weighed 2 tons 2 cwt. With a load of concrete blocks and sand-filled sacks weighing 1 ton 9½ cwt., and two passengers, the gross laden weight was 3 tons 16 cwt. The load was evenly distributed over the body floor and the weight distribution was 1 ton 9 cwt. over the front wheels and 2 tons 7 cwt. over the rears. As 7.50-16 (8-ply) tyres are fitted all round with single rears, this meant that

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The 13-ton van handled well in traffic. Reversing was helped by windows of adequate size in the rear doors and well-positioned nearside and offside driving mirrors.







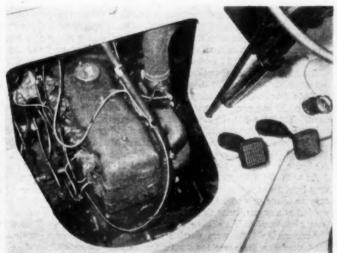
(Above) This interior view of the van body when empty gives a good idea of the loading facilities. Both seats are mounted on strong supports which hinge forward to give improved access to the load area from the side doors. (Left) The rear doors fold flat against the body side and are held in this position by strong catches. The low front step will be noted.

Although the interior engine cover protrudes only slightly into the driving area, good engine accessibility is given when it is removed.

while the front tyres were within their capacity by a total of $11\frac{1}{2}$ cwt. the rear tyres were overladen by a total of $6\frac{1}{2}$ cwt.

All the tests, except those for part-load and empty fuel consumption, were carried out at this weight. The seven runs intended to simulate delivery work and designed to get an idea of fuel consumption on this type of operation were carried out over the usual six-mile outand-return run on the A6 between Barton and Clophill. During the tests there was a very strong and blustery wind blowing more or less from the West. As the Walk-Thru van body has such a large side and frontal area, this could have affected adversely the figures obtained. It would be impossible to estimate with any accuracy the actual effect, but it may have made a difference of between five and 10 per cent.

Because of the strong wind, a high-speed fuel consumption run on the M1 Motorway on the



ROAD TEST No. 722 M181-COMMER 11-TON DIESEL-ENGINED FORWARD-CONTROL VAN.



FIRING ORDER 1-3-2-4 COMPRESSION RATIO 20:1 VALVE CLEARANCE 0.012

MODEL: Commer Walk-thru 1½-ton 10-fc. 3-in.wheelbase forward-control van with standard 350-cu,-fc, all-steel body.

WEIGHTS: Unladen (kerb weight) Payload Driver, observer, etc.	**	 ons 2 1	2 9 4	qr. 0 3
		3	16	0

DISTRIBUT	ION:						
Front	+ +	**	4.8	**	1	9	0
Rear		2.0	2.0	**	2	1	0

ENGINE: Bore 84.14 mm. (3.3125 in.); stroke 101.6 mm. (4.0 in.); piston-swept volume 2.26 litres (137.9 cu. in.); maximum net output 5.2.5 b.h.p. at 3,000 r.p.m.; R.A.C. rating 17.6 h.p.; maximum net rorque 100 lb.-ft. at 1,750 r.p.m.

TRANSMISSION: Through 10-in.-diameter singledry-plate clutch to Commer four-speed synchromesh gearbox thence by two-piece propeller shaft to the fully floating spiral-bevel rear axle.

GEAR RATIOS: 5.77, 3.029, 1.703 and 1 to 1 forward: reverse 6.985 to 1: rear-axle ratio 5.57 to 1.

BRAKES: Girling hydraulic system with twoleading-shoe units at all wheels. Single-pull hand brake linked mechanically to rear wheels only. Diameter of drums, front, 12 in., rear, 12 in.; width of linings, front, 2½ in., rear 2½ in.; total frictional area, 214 sq. in. that is, 56 sq. in. per ton gross weight as tested.

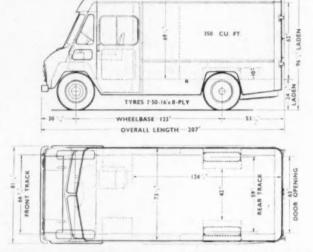
FRAME: Pressed-steel channel section with five cro.s-members riveted in position.

STEERING : Cam and peg : 3½ turns from lock to lock.

SUSPENSION: Semi-elliptic springs, with levertype hydraulic dampers at both axles.

FUEL CONSUMPTION ANALYSIS

Payload (cwt.)	Gross weight (cons)	Test	Average m.p.	Average m.p.;.	Gross ton- m.p.g.	Time-load- mileage facto
29.75 29.75 29.75 29.75 29.75 14.75 14.75 14.75 Nil	3.8 3.8 3.8 3.05 3.05 3.05 3.05 2.3125	Non-stop, low speed Non-stop, high speed One stop per mile Four stops per mile Non-stop One stop per mile Four stops per mile Non-stop	24 20 22.5 17.5 26.5 25.5 19.2 29.5	29.4 39 24.3 20.5 29.4 28 20.6 29.5	91.2 76 85.4 66.5 80.9 77.8 58.5 68.2	2,680 2,964 2,070 1,361 2,380 2,175 1,202 2,012



ELECTRICAL: 12v. compensated-voltage-control system with 115-amp.-hr. batteries.

FUEL CONSUMPTION: See separate panel for detailed results,

TANK CAPACITY: 10 gal., non-stop fully laden, range approximately 240 miles.

ACCELERATION: Through gears, 0-20 m.p.h., 9.0 sec.; 0-30 m.p.h., 19.0 sec.; 0-40 m.p.h. 40.0 sec.; direct drive, 10-20 m.p.h., 17 sec.; 10-30 m.p.h., 31 sec.; 10-40 m.p.h., 56 sec.

BRAKING (wet asphalt): From 20 m.p.h., 20.2 ft. (21.2 ft. per sec. per sec.); from 30 m.p.h., 47.0 ft. (20.5 ft. per sec. per sec.).

WEIGHT RATIO: 0.69 b,h.p. per cwt. gross weight as tested.

FORWARD VISIBILITY: To within 7 ft. of front bumper at ground level on centre line.

TURNING CIRCLES: 43.9 ft. left lock, 46 ft. right lock. Swept circles: 46.4 ft. left lock, 48.5 ft. right lock.

MAKERS : Commer Cars, Ltd., Luton, Beds.

first day of the tests had to be abandoned, although the maximum speeds in the four gears were checked. The maximum speed in top was 50 m.p.h. (allowing for a 5 per cent. inaccuracy of the speedometer at this speed) at which the van handled well in spite of the wind. The speedometer was found to be 2 per cent. fast at 30 m.p.h. and, taking this into account, the maximum speeds in the three lower gears were found to be 31, 17 and 8 m.p.h

The high-speed consumption run was completed later on the same 10.6-mile stretch that the 2-tonner was tested over—South from the A505 to the A4147 junctions—and the figure of 20 m.p.g. at an average speed of 39 m.p.h. is very good. Taking all the factors into consideration, I would estimate the consumption likely to be obtained on general delivery work in reasonable traffic conditions at around 25-28 m.p.g. Where there is a great deal of traffic congestion the figure would very likely drop to around 21-24 m.p.g.

As with the 2-tonner, the accelerator pedal spring was very light and there was little "feel" with it so that it was easy to allow more fuel to be supplied than was actually needed at any particular time. I feel that improved figures would be obtained if a slightly stronger spring was fitted.

Acceleration tests were carried out on the stretch of road used for the same tests with the 2-tonner—just off

the A6 near the start of the fuel-consumption runs. These tests were also completed on a different day to the consumption tests because of the high wind. The times obtained for both acceleration through the gears and in top gear from 10 m.p.h. were reasonably good and compare favourably with results on tests of other vehicles of a similar type and capacity.

Braking tests were also completed on the same road as those for acceleration. Unfortunately, on both the days that tests were carried out, the road surface was wet and therefore far from ideal for brake testing. The van was completely stable under crash-stop conditions, in spite of the fact that the tyres slid over the wet road with all wheels locked for the major part of the actual stopping distances.

Considering the conditions, the braking figures obtained —47 ft. from 30 m.p.h. and 20.2 ft. from 20 m.p.h.—were very good. Maximum deceleration as shown by a Tapley meter were 79 per cent. from 20 m.p.h. and 75 per cent. from 30 m.p.h. Hand-brake efficiency was above average at 40 per cent.

Bison Hill was again used for the hill-performance tests. It is three-quarters of a mile in length, has an average gradient of 1 in 10½ and a maximum gradient of 1 in 6½. A fast maximum-power ascent of the hill was completed

in 3 minutes 16 seconds. First gear was needed on the steepest section, being engaged for 20 seconds with the speed falling to a minimum of 8 m.p.h. during this time. Ambient temperature for the test was 44°F, and the temperature of the radiator top tank increased by 15°F. on the climb.

The usual procedure for the assessment of brake-fade characteristics was adopted on the run down the hill. The main part of the descent was made in neutral with the footbrake applied to keep the speed around 20 m.p.h., and where the gradient is less steep towards the bottom, top gear was engaged and full throttle applied with the brakes still on to keep the speed still at 20 m.p.h. Total time for the descent was 2 mins. 35 secs, with 35 seconds spent in

A full-pressure stop from 20 m.p.h. at the end of the run gave a Tapley-meter reading of 73 per cent.-some 6 per cent. less than with cold drums. There was a small increase in the amount of pedal travel indicating that the slight fade was due to brake drum expansion.

On a second run up the hill, the van was stopped on the 1-in-61 section, and an easy restart was made in bottom gear. When facing down the hill an equally easy restart was made in reverse gear.

No maintenance tests were carried out on the van tested

because the similarity of the engine installation meant that there will be little difference in the times for comparable tasks between this and the 2-tonner tested earlier and on which a full routine-maintenance test was completed. As far as accessibility with the 2.26-litre diesel engine is concerned, the injection pump, injectors, fuel lift pump and filter are well placed and easy to reach.

In the test report on the 2-tonner, I said that no starting handle is supplied when the 3-litre engine is fitted. While this is so in standard form, I understand that equipment for hand starting-a starter dog, starting handle and guide bracket-is available as an option on all Walk-Thru models except the 3-tonner fitted with the Perkins 4.203 engine.

Excluding the various items of optional equipment fitted. the 11-ton Walk-Thru van with the 2.26-litre diesel engine tested is priced at £952, £120 more than when the fourcylindered petrol engine of the same capacity is fitted. The price of the 2-tonner with the 3-litre petrol engine tested previously is in fact £5 cheaper at £947. The decision as to which of the wide range of Walk-Thru models to specify will depend entirely on the type of operation on which the vehicle is to be used. Where relatively high mileages are the rule without a great deal of traffic congestion, the fuel economy of the diesel engine will be of the greatest advantage.

New Equipment and Publications

Fluids into Lines

DEVICE to permit the injection of A fluids into a water line regardless of pressure and without any pumps or similar equipment is now marketed by Booth Patents, Ltd., Much Park Street, Coventry. It is known as the RinsOmatic Mk. II Dispenser and can be used with all types of plant which require such things as detergents to be injected into water line. These include vehicle washing and dairy plant.

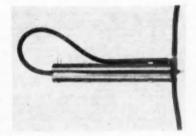
The unit can be refilled by hand or can be arranged to recharge itself automatically from tanks or drums. Suitable mixture proportions for all requirements can be supplied.

Models for a variety of purposes are available and the price of the basic unit

Vehicle Fluorescent Lighting

SELF-CONTAINED, transistorized A fluorescent light unit which can be operated from a vehicle battery has been introduced by Lab-Craft, Ltd., 83 Ilford Lane, Ilford, Essex. It is said to be simple to install and to have the low current consumption of 2 amps.

Standard 2-ft., 20-w. fluorescent tubes to used. The casing is of aluminium are used. and the lamp holders are resiliently mounted to protect them against vibration damage.



The RinsOmatic Mk, II Dispenser shown fitted in a water line.

Overall length of each unit is 2 ft 3 in. and the weight is 3 lb. complete. Models suitable for 12-v. and 24-v. circuits are

Hand-operated Lift Truck

NEW hydraulically operated lift A truck is being produced by The Engineering Co., Ltd., Tamworth, Staffs. It is called the Polymathic Coolie and has a capacity of 10 cwt. at a maximum clearance height of 4 ft. 6 in. The truck is manœuvred manually.

Three attachments are available with the unit. These are fork lift arms with a I ft. 8 in. reach, a steel platform measuring 1 ft. 8 in. by 1 ft. 6 in. and a jib arm 2 ft, 6 in, long. The load limit with the jib arm is 3 cwt.

Overall dimensions of the Coolie are 3 ft. 6 in. long by 2 ft. 34 in. wide and 6 ft. high. All four wheels are 4 in. diameter.

It is said that the standard model can be adapted to suit individual requirements as there are a number of hydraulic pumps, wheels and other parts which can be incorporated.

The ex-works price of the unit is £82.

N order that hire purchase may be used

H. P. Explained

in the best way, the Finance Houses Association, 14 Queen Anne's Gate, London, S.W.1, has produced a leaflet on the subject. Copies can be obtained on application to the association.



(Left) Lab-Craft, Ltd., now make this self-contained fluorescent light unit suitable for use on vehicles.

(Right) The Polymathic Cootie shown in use in a machine shop.



Expansion Trends in Haulage

Large Switches in Two Areas

THE Northern publication contains a large number of licence "switches" as well as several straight additions. Heavy hauliers, Sunter Brothers, of Northallerton, ask to add several articulated units to their A licence, whilst J. and W. Watt (Carlisle), seek to add two platform vehicles to their A licence. Several C licence operators, concerned with the haulage of petroleum products, seek B licences.

Another area in which there are many contract transfers is the East Midland.

Contract A and C licence operators seeking ordinary carrier's licences are listed below:

Contract A to A lic.: Northern: Sunter Brothers, Northallerton. Western: North Devon Carriers, Ltd., Bratton

Fleming. Metropolitan: Mead Bros. (Kingsbury), Ltd., Kenton.

710

Contract A to B lie.: Northern: Nitrogen Sprays, Ltd., Carlisle; A. Hanson, Darlington. East Midland: N. Fairbrother, Hartshorne; R. J. Ross, Mansfield: R. P. Pickering, Newhall: Thomas Kerr and Co., Ripley: H. Shaw (Haulage), Ltd.; E. H. Pickering, Newhall. Yorkshire: A. E. Sedgwick, Ashover; S. P. Sanders (Hauliers), Castleford.

Western: F. Tucker, Exeter.

C lic. to B lic.: Northern: Northern
Farmers' Trading Association, Ltd.,
Alnwick, Berwick-on-Tweed, and Choppington; Durham Petroleum Distributors, Ltd., Darlington; Broombys, Ltd., Milnthorpe. Western: R. C. Smith. Ltd., Bristol; M. C. Cullimore, Stroud.

WM 13/12/10.—Robin Hood Transport, Ltd., Nottingham, B var., add 1 veh. (4t). To be used only when any other authorized veh, is withdrawn from service for overhaul or repair.

WM 13/12/11.—L. and J. Carr, Underwood, B var., add 1 veh. (4t 11c). For use only when any other authorized veh, is withdrawn from service for overhaul or repairs.

YORKSHIRE

Applications
Y 6/12/1.—W. Tordoff, Siddal, new A lic., 1 veh.
10. Fruit and vegetables. Lincoinshire and

Y 6/12/1.—W. Tordoff, Siddal, new A lie., I veh. Cift). Fruit and vegetables. Lincoinshire and Liverpool.
Y 6/12/2.—Stanley S. Hyde, Ltd., Bingley, A var., add 3 veh., C240.
Y 6/12/3.—Myatts Transport, Ltd., Cudworth, A var., add 2 arts, (150).
Y 6/12/4.—I. Petrowiak, East Ardsley, A var., add 2 arts, (150).
Y 6/12/4.—I. Petrowiak, East Ardsley, A var., add 1 veh. (710). Add 2 arts, (80), 1 art. tractor (310), 1 art. tractor (20, 2 art. trls. (210).
Y 6/12/5.—Harold Wood and Sons, Ltd., Heckmondwike, A var., add 1 veh. (940).
Y 6/12/6.—A. E. Sedgwick, Ashover, new B lic., 1 veh. (511). Fuel and colliery timber for D. M. Stevenson and Co., Ltd., Birmingham, as required, (1f granted Contract A lie. will be surrendered.)
Y 6/12/7.—A. Akfans, Burnley-in-Wharfedale, new B lic., 1 veh. (211). G.g. within 25 miles.
Y 6/12/8.—S. P. Sanders (Haudlers), Ltd., Castleford, new B lic., 7 veh. (28)1). Coal and cock for the National Coal Board, No. 8 Area, within 80 miles, and for George Cooper and Sons (Coal), Ltd., Pocklington, within 80 miles and occasionally to South Wales. (If granted Contract A lics, will be surrendered.)
Y 6/12/9.—Simmonds and Jackson, Harrogate, new B lic., 1 veh. (20). Removal of missellaneous items and furniture to and from auction room within 30 miles.

30 miles, Y 6/12/10.—Hollings and Spencer, Ltd., Keighley, new B lic., I yeh, (41t). Building mats, and coal within 50 miles.

EAST MIDLAND

Applications

EM 13/12/1.—N. Fairbrother. Hartshorne. new B ile., 2 veb. (1st 19e). Fuel and colliery timber to be carried on the instructions of D. M. Stevenson and Co., Ltd., within 150 miles. (If granted Contract A ile. will be surrendered.)

WM 13/12/2.—R. J. Ross, Mansfield, new B ile., 1 veb. (4)t). Sand and gravel for Hoveringham Gravels. Ltd., as required. (If granted, Contract A ile. will be surrendered.)

EM 13/12/3.—R. P. Pickering, Newhall, new B ile., 2 veb. (10t 17c). Fuel and colliery timber to be carried on the instructions of D. M. Stevenson and Co., Ltd., as required. (If granted. Contract A ile. will be surrendered.)

WM 13/12/4.—Forme Garage, Ollerton, new B ile., 5 veb. (20t 17c). Agric, produce. building mats., coal and be-products within 50 miles.

WM 13/12/4.—Forme Garage, Ollerton, new B ile., 5 veb. (20t 17c). Fuel and colliery timber to be carried on the instructions of D. M. Stevenson and Co., Ltd., as required. (If granted. Contract A ile. will be surrendered.)

WM 13/12/6.—II. Shaw (Hauslage), Ltd., Stapleford, new B ile., 8 veb. (52t 18c). Fuel and colliery timber to be carried on the instructions of D. M. Stevenson and Co., Ltd. (If granted. Contract A ile. will be surrendered.)

WM 13/12/6.—B. Shaw (Hauslage), Ltd., Stapleford, new B ile., 2 veb. (17t 14c). Fuel and colliery timber to be carried on the instructions of D. M. Stevenson and Co., Ltd. (If granted. Contract A ile. will be surrendered.)

WM 13/12/7.—E. H. Pickering, Woodville, new ill be surrendered.)

WM 13/12/8.—C. P. Marshall (Scunthorpe), Ltd., Asheyville, B var., add I veb. (10t). Petroleum rouducts and bulk liquids within 150 miles to customers where there are no direct rail connections.

WM 13/12/9.—Securicor (Southern), Ltd., Ltd., avranted vans.

connections.

WM 13/12/9.—Securicor (Southern), Ltd., Headington, B var., add 2 veh. (3t 4c) armoured vans.

Clash and valuables within 15 miles.

WEST MIDLAND

WM 14/12/1. — Guymer's (Transport). Ltd., Walsall. A var., add 1 veh. (3½) and 1 art. (51). To be used as substitute veh. when authorized veh. Is undergoins repair or maintenance. WM 14/12/2.—Great Barr Hauligae, Birmingham, new B lic., 1 veh. (4½). Builders' mats. and plant within 25 miles. WM 14/12/3.—D. M. Benßeld, Worcester, new B lic., 1 T. (4½). Road-making mats. on behalf of Limmer and Trinidad Lake Ashphalt Co., Ltd., within 25 miles.

If ite., 1 1, (40). Road-making mass, on behalf of Limmer and Trinidad Lake Ashphalt Co., Ltd., within 25 miles.

WM 14/12/4. — Securicor (Midlands), Ltd., Worcester, new B lic., 3 veb. (5½1). Cash and valuables within 15 miles.

WM 14/12/5.—Granary Haulage, Ltd., Burton-n-Trent, B var., add 19 veb. (6½1) and 5 veb. (17½0) to be hired. Foodstuffs (animal and human), fertilizers, engineering equipment, building mats. for English Grain Co., Ltd., and its associated companies, as follows: Trent Yeast Extract Co., Ltd., Graham Dene, Ltd., Trent Building and Industrial Maintenance Co., Ltd., Holle Baby Foods Co., Ltd., Maxicrop. Ltd., Castle Donnington Concrete. Ltd., and A. V. Matlock, Ltd.

WM 14/12/6.—W. E. and J. E. Howard, Burton-pon-Trent, B var., 17, (6½0). Fuel and colliery timber to be carried on the instructions of D. M. Stevenson and Co., Ltd.

WM 14/12/7.—Lluyd's Motorways, Ltd., Oldbury, B var., add 1 art. (61). G.g., within 25 miles.

NORTHERN

NORTHERIN

Applications

N 12/12/1.—J. and W. Watt, Ltd., Carlisle, A
var., add 2 veh. (8t).

N 12/12/2.—Sunter Bros., Ltd., Northallerton, A
var., add 5 arts. (52t. 19c). (Subject to the grant.
one veh. will be surrendered from Contract A lic.)

N 12/12/3.—Northern Farmers' Tradling Association. 14d., Alnwick, new B lic., 1 veh. (4t. 2c)

N 12/12/3.—Northern Farmers' Trading Association, Ltd., Alnwick, new B lic., 1 veb. (42 c) (tank/crate). Esso fuel oil and lubricants within 10 miles. (Vebs. at present specified in C lic.) N 12/12/4.—Northern Farmers' Trading Association, Ltd., Berwick-on-Tweed, new B lic., 2 veb. (88 4c) (tankers). Esso fuel oil and lubricants within 17 miles. (Vebs. at present specified in C lic.) N 12/12/5.—J. B. Baker, Blyth, new B lic. 1 veb. (110) (Land Rover). Caravan towing, anywhere.

where.
N 12/12/6.—Nitrogen Sprays, Ltd., Carlisle, new B lic., 1 veh. (41t) (bulk transporter). (Subgrant, Contract A lic. will be surrendered.)
N 12/12/7.—Northern Farmers' Trading A

m ite., I ven. (42) four transporter, Subject of grant, Contract A lic, will be surrendered.)

N 12/12/7—Northern Farmers' Tradiing Association, Ltd., Choppington, new B lic., 2 veh, (80) (tank/crates). Esso fuel oil and lubricants within 17 miles. (Vehs, at present specified in C lic.)

N 12/12/8—Durham Petroleum Distributors, Ltd., Darlington, new B lic., 6 veh, (24 l c) (tankers). Petroleum preducts for Esso Petroleum Co., 40 miles. (Vehs, at present specified in C lic.)

N 12/12/9.—A. Hansom, Darlington, new B lic., 1 veh, (2t 19c) (van). Coal and coke within 25 miles. (Veh. at present specified in Contract A lic.)

N 12/12/10.—Northern Farmers' Tradiing Association, Ltd., Hexham, new B lic., 2 veh, (8t 4c). Esso fuel oil and lubricants within 14 miles.

CONTRACTIONS: add, additional; agric. agricultural; art., articulated unit; c, g.g., general goods; G.B., Great Britain; indivisible; lic., licence; low-ldr., low-loader; mats., materials; N.U., normal user; S.T., special type; t, tons; T., tipper; trl., trailer; var., variation; wh., wheels.

N 12/12/11.—Broombys, Ltd., Milnthorpe, new B lic., 5 veh, (16t 17e), Petroleum products for Esso Petroleum within 45 miles. (Vehs. at present specified it C lic.)
N 12/12/12.—Road Haulage (Morpeth), Ltd., B var., add 4 T. (10t 17e).
N 12/12/13.—A. W. McDonnell (Jnr.), Wheatley Hill, B var., add 1 T. (34t).

WESTERN

W 12/12/1.—North Devon Carriers, G. Ltd., Bratton Fleming, A var., add 1 vch. (31 7c). G., within 80 miles. (Vch. at present specified in Contract A lic. which will be surrendered.) W 12/12/2.—W. S. Bugler, Bridport, new B lic., 1 vch. (10). G.g. within 25 miles. W 12/12/3.—R. C. Smith. Ltd., Patchway, new B lic., 1 T. (3t 16c). Building mats. within 50 miles. (Vch. at present specified in C lic.) W 12/12/4.—F. Tucker, Exeter, B var., add 5 T. (15t 8c). Goods for the Western Counties Brick. (1c). Ltd., and associated companies, any distance other goods within 15 miles. (Vchs. at present specified in Contract A lic.)

Co., Ltd., and associated companies, any distance other goods within 15 miles. (Vebs. at present specified in Contract A lie.)

W 12/12/5.—J. H. Kemp, Helsion, B var., add 1 T. Gt. 12c.). Building mats, in Cornwall; other goods within 20 miles, crushed stone from Dean within 250 miles.

W 12/12/6.—W. Smith Carriers (Midsomer Norton), Ltd., B var., add 1 v.h. (3t 8c). Parcels and smalls within 25 miles.

W 12/12/7.—M. C. Cullimore, Stroud, B var., add 2 T. (17t 12c). Goods for Moreton C. Cullimore Giravels), Ltd., any distance; mack and site clearance for customers of Moreton C. Cullimore Gravels), Ltd., and lean mixed and ready mixed concrete, any distance. (Vebs. at present specified in C lie. (Hiring Allowances).)

METROPOLITAN

Applications
M 14/12/1.—F. G. Bowman, N.W.5. new A lic., veh. (9t 6c), Bones from London to Doneaster

M 14/12/1.—F. G. Bowman, N.W.5, new A lie, 3 veh. (9t 6c). Bones from London to Doncaster and s.g. on return.
M 14/12/2.—L. W. Ballard Transport (Twickenbam), Ltd., A var., add 2 veh. (8t). G.g., G.B.
M 14/12/3.—F. J. Hope (Transport), Bedfont, A var., add 4 arts, 40t) (semi-low-ldr.), G.g. and indivisible loads. G.B.
M 14/12/4.—Mead Bros. (Kingsbury), Ltd., Kenton, A var., add 3 art. (141) and 2 veh. (8t 17e). G.g., London, Home Counties, Midlands, Laneshire and Yorkshire. (If granted, Contract A fic. will be surrendered.)

shire and Yorkshire. (If granted, Contract A lec-will be surrendered.)

M 14/12/5.—J. R. Street and Sons, Ltd., Heri-ford. A var. add I veh. (It 2c). G.g., G.B.

M 14/12/6.—D.A.C. Air Services, Ltd.,
Hounslow, new B lic., 2 veh. (21). Air freight (imported and exported) within 20 miles of London Airport and diversionary airports, Gatwick and Southend within 20 miles of London Airport.

M 14/12/T.—J. Eastgate, Billericay new B lc., I veh. (It 2c). General light goods within 250 miles.

l veh. (H. 2c). General light goods within 250 miles.

M. 14/12/8.—R. List, Guildford. new B lic., 1 veh. (41 19c). Forestry products (peat. cardwoodmoss, turnery poles, brushwood, etc.) within 50 miles; mining timber, sawn by the applicant, to coal mines in South Wales, the East Midlands and South East within 160 miles, all for the Economic Forestry Group.

M. 14/12/9.—Unilever, Ltd., Redhill, new B lic., 6 veh. (21t. 4c). Distribution of consumer goods from Saifords and any goods returned to warchouse within 40 miles.

M. 14/12/10.—Unilever, Ltd., Chesham, new B lic., 5 veh. (17t. 2c). Distribution of consumer goods from Chesham and any goods returned to warchouse within 50 miles.

M. 14/12/11.—Unilever, Ltd., E.1, new B lic., 10 the Chesham and any goods returned to warchouse within 50 miles.

M. 14/12/12.—Unilever, Ltd., Woking, new B lic., 1 veh. (21 t.). Distribution of consumer goods from Wapping and any goods returned to warchouse within 15 miles.

M. 14/12/12.—Unilever, Ltd., Woking, new B lic., 1 veh. (21 t.). Distribution of consumer goods from Woking and any goods returned to warchouse within 15 miles.

M 14/12/12.—Uniflever, Ltd., Woking, now B lic., 4 veh. (1st 3e). Distribution of consumer goods from Woking and any goods returned to warehouse from within 25 miles.
M 14/12/13.—S. Wyatt-Earp, N.W.10. new B lic., 1 veh. (1t 4e). Furniture removals, greengroceries and refrigerators, within 30 miles.
M 14/12/14.—Merrall's Transport, Ltd., Egham. B var., add 1 veh. (6t). Bitumen and paint in drums and returned empty drums for Bitumen Industries, Ltd., British Bitumen Emulsions, Ltd., and Drum Laundry Services, Ltd., and timber buildings for Blacknell Buildings, Ltd., within 500 miles.

miles.

M 14/12/15.—J. R. Street and Sons, Ltd., Hert-ford, B var., add I veh. (3t 4e). To replace any veh. specified on A or B lie, whilst undergoing repair or major overhault.

Letters to the Editor

Sales Attitudes—Then and Now

HOPE my observations of 40 years ago on selling and servicing commercial vehicles will be of interest to newly appointed dealers who, due to the ever-increasing demand for such vehicles combined with the tendency of manufacturers to reduce dealership territories by making additional representation, have been made dealers. In many cases this has caused the said dealers to engage extra "carcum-commercial salesmen." This I consider very unwise, as an enthusiastic car salesman without sufficient knowledge of either vehicle or requirements will sell an unsuitable machine for the purpose specified and jeopardize future

Forty years ago when there were not so many dealers, a salesman was a trained engineer who had served a full apprenticeship with the manufacturer of the particular vehicle, and he always obtained full details from his prospective customer as to the use to which the vehicle would be put, including routes and gradients and other data before

quoting for the suitable machine.

I remember one instance many years ago when a 5-ton chain-driven lorry was delivered to a customer in a hilly area and, as the gradients in the locality where the vehicle would operate were unknown, three pairs of alternative chain sprockets and spare chain links were sent with the vehicle. On arrival at customer's premises the driver/ mechanic spent two or three days testing the vehicle fully loaded on the routes and changed sprockets to give most suitable ratio for that area, taking back with him the unused parts. Result, a very satisfied customer and repeat orders. The same applies to service buses supplied to a congested, hilly area in Wales.

I am amazed to find today a salesman will sell, say, a 7-ton lorry, and does not know what goods will be carried, or if motorways will be used. (Two-speed axles, power steering and braking equipment not mentioned.) A skilled salesman should be able to visualize a customer's requirements and suggest special features in body design, etc., to facilitate loading and so on.

With regard to after-sales service, nearly 40 years ago I initiated a system of inspecting engineers calling periodically on all customers, tuning up their vehicles and generally giving advice. This procedure paid handsome results.

Every effort was made to keep vehicles on the road at all costs during their normal working hours. Today there is far too much "We are very busy, you can bring in your vehicle next week," with the result that a repeat order is lost and the particular vehicle gets a bad name because it was off the road unnecessarily.

"VETERAN."

180 Degrees

WE operate a large number of Commer light diesels (4-cylinder with D.P.A. pump) and quite by accident one of our fitters managed to fit a D.P.A. unit 180° out by timing it from No. 4 cylinder instead of No. 1. This wasn't found out until after overhaul when it was road tested, and performance was not quite up to par. The chargehand checked the timing and found it was, as stated, 180° out of correct timing (early or late as you care to call it). Needless to say this caused quite a debate and argument among the fitters, the general opinion being that an engine would not run with the injection pump in this relationship. To prove it, the chargehand got another identical vehicle (in poorish condition), turned the D.P.A. pump 180° and, to the surprise of the "Doubting Thomases" it ran, and ran well at that!

Have any of your readers experienced any similar case? Barnwood Road. A. PRATT, M.I.I.S., Assistant Manager, Gloucester.

Transport and Refrigeration Dept., T. Wall and Sons (Ice Cream), Ltd.

Report on Development of Fuel Cells

RESEARCH into the development of hovercraft and fuel cells formed a major part of the work of the National Research Development Corporation during the year ended June 30, 1961. This was stated in the annual report of the Corporation published last week.

Speaking of the work on fuel cells, the report stated: "For some time it was evident to us that a research and development effort of a major order would be required before fully engineered, marketable fuel cells could be in production, and that industry's participation in that effort would be vital. We have, therefore, been working intensively to secure such participation. We are pleased to report that three important British firms have decided with the Corporation to establish a new company for fuel cell research, development and manufacture.

The Corporation had been concerned during the year with two types of cell-the hydrogen/oxygen cell sometimes known as the Hydrox cell, developed by Mr. Francis Bacon, and the high temperature cell under development at the Sonders Place Research Institute, known as the Carbox cell. This was capable of consuming carbonaceous and hydrocarbon fuels. The programme of work on the hydrogen/oxygen cell had been completed. The programme of work at the Sonders Place Research Institute on the

high temperature cell had been arranged so as to be complementary to similar programmes in the United States.

On the subject of hovercraft, the report said that five different vehicles embodying the Hovercraft principle would be undergoing trials over the next few months. The project was proceeding rapidly and, as a detailed review of the year's progress in the June 30, 1961, would be of little topical value today, only a summary of the positionat that date was included.

The report said: "This is a project the potentialities of which will be realized only after some years. It is considered, however, that the possible applications for hovercraft, particularly in overseas markets, are such as to justify a United Kingdom effort now and in the immediate future which will ensure the widest possible markets for British

At the end of the year 30 potential development projects were under assessment. Three others that concern road transport are: an infinitely variable-speed gear (contracts were placed for the design of an improved unit and for the testing of six prototypes); a regenerative mechanical transmission system which stored in a flywheel energy lost during braking (data accumulated in tests were being analysed); and variable-speed electric motors.

Thermostatic Fan Drive

A UTOMATIC regulation of cooling-water temperature is the aim of a scheme shown in patent No. 876.548. An increase in water temperature increases the fan speed and vice versa, (Suddeutsche Kuhlerfabrik Julius Fr. Behr. 5 Mauserstrasse, Stuttgart-Feuerbach, Germany.)

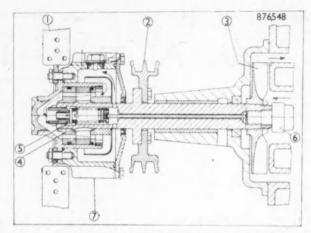
The drawing shows the fan (1) which is initially driven by the pulleys (2). The same spindle is also used to drive

the water pump (3).

The spindle carries the rotor (4) of a vane-type pump and the eccentric ring thereof is fixed to the fan assembly. If the pump be hydraulically locked, then a straightthrough drive is transmitted from spindle to fan. If the pump output be by-passed, then no drive at all is transmitted.

Control of the pump output is given by a valve (5).

This connects the inflow and outflow The valve is moved by a rod connected to a thermostatic capsule (6) immersed in the cooling water, the tem-



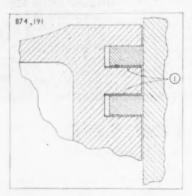
is heated when slip occurs, it is circulated around the periphery of the housing (7) on which external fins are provided.

perature of which opens or closes the valve as required.

Because the oil in the hydraulic unit

MORE DURABLE PISTON RINGS

CHROMIUM-PLATED piston rings have been used to minimize corrosion caused by sulphur in diesel fuel, but the plated deposits tend to break up when the ring is expanded for placing in position. Such are the views expressed in patent No. 874,191, which shows an improved scheme in which the piston-



ring grooves are plated rather than the (California Research Corp., 200 Bush Street, San Francisco 4, California,

It is suggested that the hard chromium layer is deposited on the horizontal faces of the ring grooves as shown at 1. thickness of the deposit is from .003 to .010 in. The rings are preferably made from an alloy having resistance to corrosion. The scheme may also be used to build up worn pistons.

DAIMLER SUSPENSION SYSTEM

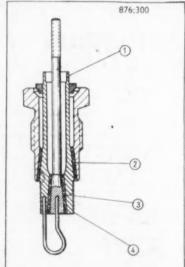
PATENT No. 873,877 comes from Daimler-Benz A.G., Stuttgart-Unterturkheim, Germany, and shows a suspension arrangement in which a rigid axle is attached to the frame on a central horizontal pivot. The resilient members are helical springs, and all the joints are self-lubricating.

BETTER GLOW-PLUGS

DIFFICULTIES in the manufacture of insulating material for glow-plugs are mentioned in patent No. 876,300 which proceeds to describe an improved material and method. (Robert Bosch G.m.b.H., 4 Breitscheidstrasse, Stuttgart, W. Germany.)

The central electrode forms one terminal, and a tubular member (1) the other, the filament being connected across

Both electrodes are insulated from their surroundings by layers shown in dotted lines at 2 and 3. These consist of a sprayed-on coating of ceramic material which is then fired. This provides the



actual insulation, but to ensure gastightness a softer material, such as talc, is applied on top of the ceramic. This, when pressed into assembly, can deform to accommodate irregularities and so create a seal.

The ceramic is also applied to the exposed portion (4) where it prevents combustion products adhering.

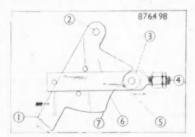
DISC BRAKE IMPROVEMENTS

PATENT No. 874,614 refers to hydraulically operated disc brakes and deals with a means of maintaining a constant clearance between pads and disc. References are made to other patents dealing with clutches. The patentee is Regie Nationale Des Usines Renault, 8/10 Avenue Emile Zola, Billancourt, France.

VARIABLE RATIO BRAKE LEVER

LEVER mechanism which gives increasing mechanical advantage with movement is shown in patent No. 876,498. It is intended mainly for use in the linkage of a foot-brake. (N. Powrie and D. Rogan, 25 Alexandria Street, Sandringham, Johannesburg. Africa.)

The pedal is attached to a lever (1) which is pivoted about the point (2). The



lever pushes against a roller (3) attached to the brake rod (4).

At the start of the stroke, the cam first forces the roller over a hump (5), an action which takes up slack rapidly. Thereafter, the slope (6) is shaped so as to give a progressively diminishing ratio. The ratio may rise again at the extreme tip (7) to permit a pumping action when used with hydraulic brakes.

See SPARSHATTS

the Body building specialists



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EASTWOODS COMMERCIAL MOTORS, 27 Aston Rd. North, Birmingham, 6. Ast 3467. 940-159 B.M.C. bold long-wheelbase high fixed-side timber-towns, flashers died coal tipper, 2-speed aske, pow-towns, flashers die flasher, expainted, 104 MIDLAND VEHICALE, expainted, 104 Midland VEHICALE, 104 Workings, Northern 8744.

TWO 1960 B.M.C. flats for sale, good condition, Commercial Sales, Ltd., Warner Street Barrow on Soar, Leics, Quorn 2204.

1958 B.M.C. "-ton long-wheelbase diesel tipper, reconditioned engine just fitted, very vehicle, in first-class condition. Watson Bros. (Al Ltd. Phone, Airdrie 2401-5,

COMMER

1953 COMMER OX, light-alloy platform body, excel-lent condition, £170. L. W. Vass, Ltd., Ampthill, Bedford, Ampthill 3255.

EX-DEMONSTRATOR COMMER 7-ton diesel dro side truck, 5,500 miles only, fitted overdrive gearbo 9.00 x 20 tyres and air brakes. Ray Powell, Ltd., Easte Avenue, Ifford, Essex. Phone, Valentine 9123 (10 line)

15-CWT, forward-control van, foam grey, sliding doors, heater, very clean condition, registered March, 1960, £375. Brew Bros., 133 Old Brompton Rd., 5,W.7. Fremantle 3333.

1960 TS3 7-ton 18-ft. drop-side truck, 44,000 mites, COX AND CO. (LEEDS), LTD. Regent St., Leeds, 2. Phone, Leeds 1914 tits lines.

THREE 1959 COMMER 6-wheelers, Newport Motor Service, Phone, Newport 59441. 940-286

1959 COMMER EDV. antelope. £250. H. Taylor and Co. Elmbridge 9081. 940-222

1961 COMMER 7-ton diesel TS3 short-wheelhase tipper, 9.00 x 20 tyres, 14,000 miles, one owner, 1901 ripper: 9.00 ± 20 types, 1-1,000 as new, (1.050, 200 as new,

1959 COMMER 6-wheel coal tipper, Eaton 2-speed axie, S-speed gustrbox, air brakes, 1959 axie, S-speed Brukes, Brukes,

1957 COMMER 30-cwt. super capacity, diesel engine.
PHOENIX MOTORS. LTD., Oxford Rd., Gerrards
Cross, Phone, Denham 2716, Gerrards Cross, 2545,
940-312

COMMER express delivery van in grey.

INGARFIELD'S GARAGE, LTD., 243 Brixton Rd.,
940-365

COX'S MOTORS (HILL TOP), LTD.

1960 COMMER TS3 short-wheelbase tipper, steel body, air brakes and 5-speed gearbox, excellent

TERMS AND EXCHANGES ARRANGED. COX'S MOTORS (HILL TOP), LTD.,

127 HILL TOP WEST BROMWICH.
Phone. Wednesbury 0470, 1047.

1959 COMMER 6-wheel flat, £975. BROWNHILLS MOTOR SALES, Watling St. (A5), Brownhills, Staffs. Phone, Brownhills 2525-6-7, 940-435

1960 COMMER TS3 12-ton tractor unit, automatic 1958 COMMER 5-ton petrol tippers, 4-cu.-yd. bodies, to-brice of two. Normand, Ltd., 483-491 Northolt Rd., South Harrow. Byron 3006, 3912

1956 COMMER diesel Boys 6-wheeler, 21-ft, alloy PRAILLS (HEREFORD), LTD., Holmer Rd., Hereford, Phone 4221.

COMMER 7-ton long-wheelbase 1959 T.S.3 diesel U-shaped tipper, good condition, £525.

MEADWAY SPARES, Bordesley Green Rd., Birming-ham, 9, Victoria 4933. 940-469

DENNIS

1954 6-7-ton DENNIS Pax long-wheelbase platform good mechanical order, £295, Wessex Motors, Lid., New St., Salisbury. Phone 5291,

DENNIS Pax. 1984, P6 engine, coachbuilt platform body with aluminium floor, one owner, vehicle in ver-fair condition, £250 or near offer. Automotive Services Ltd., 50a Overdaie Rd., Ealing, W.S. Eal 3652. 940-87

DODGE

1955 DODGE 146R6 18-ft, double-drop-side diesel truck, good condition, 6285. UNIVERSITY COMMERCIALS, LTD., 99-117 Roston Rd., London, W.7. Phone, Ealing 2611. 941-6079

1959 DODGE, 8-cu.-yd. steel body, Telehoist tip gear, Eaton 2-speed axle, Leyland C engine, well maintained, choice of two. Phone, Wool

1958 DODGE 145AR6 6-wheeler (Boys), 14-cu.-yd. wooden body, 2695. Cottee and Edwards, Ltd., Nottingham. Phone 46674.

BENTLEY BROS. (SHEFFIELD), LTD., VAUXHALL-BEDFORD MAIN DEALER. 71 THE WICKER, SHEFFIELD, 3. Phone 29281.

1957 DODGE 7-ton diesel long-wheelbase twin-ram tipper, wooden body, Eaton 2-speed axle, 9,00 a 20 12-ply tyres, owner-driven from new, immaculate,

H.P. Facilities can be arranged for selected clients.

1961 DODGE artic., Comet engine, 2-speed axle, 17,000 miles only, fifth-wheel coupling, 25-ft. treble-drop-side trailer. Billet Auto Sales, 236-40 Billet Rd., Walthamstow E.17. Larkswood 5337. 940-330

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GLOUCESTERSHIRE HEREFORDSHIRE, WILTSHIRE.

H. R. WILSON-SCOTT, LTD.,

MONK MEADOW, GLOUCESTER, Phone, Gloucester 24447-8. ALWAYS NEW MODELS AND USED VEHICLES IN STOCK.

PART-EXCHANGES WELCOMED. 940-409

1960 DODGE 6-wheeler, Leyland engine, £1,550. OX'S MOTORS (HILL TOP), LTD., 127 Hill Top. West Bromwich. Phone, Wednesbury 0470 and 1047.

Used Goods Vehicles (contd.)

1958 DODGE diesel 7-ton short-wheelbase tipper, excellent, one owner-driver, very good throughout, £550. VINCENT GREENHOUS (HEREFORD). LTD. Lyde Motor Works, Hereford. Phone 2347-8-9. 940-426.

1955-56 DODGE Unipower 6-wheeler, 16-ft. 6-in. drop-side diesel truck. \$385 o.n.o. EASTWOODS COMMERCIAL MOTORS, 27 Aston Rd. North, Birmingham, 6. Ast 3467. 940-160

NOVEMBER, 1956, tractor unit with 8.1-litre Rolls-Royce diesel engine, air brakes and Tasker fifth-wheel tornitable coupling, quite immaculate appearance and con-dition, £1.700. J. C. Edge and Co., Ltd., Craven Arms, Salop.

1952. November, tractor and 30-ton semi-trailer, in throughout, £1.495. Mansfield Auros, Ltd., High Rd., Broxbourne, Herts.

1948 Unregistered ex-Government E.R.F. artic. SLW and 5-speed gearbox, with low-loa trailer, 14-ft, 6-in, well, knock-out aske, 15-ton capa very good condition, tyres good, £850. C. Morgan Son, Waltham Chase. Phone, Bishop's Waltham 1.

1959 E.R.F. 8-wheeler power tipper, 150 engine, as The Common. Ecclesheld, Ltd., 248 The Common. Ecclesheld, par Sheffield. Phone 3667.

ONE 1957 F.R.F. twin steer. Newport Motor Service. Phone, Newport 59441.

1953 E.R.F. 8-wheeler tipper, double drive, 6LW cagine, in good running order, one owner since we, bargain, £750. Terms and exchanges.

RUSH GREEN MOTORS, Langley, Hitchin, Herts. Stevenage 174, 940-265

1956 E.R.F. 8-ion 4-wheel flat platform Jorry, 4LW fronted engine, 2-speed axie, all-alloy 18-ft, body, bow-fronted class order, unladen weight 3 front 9 csc., bargain, 6850, Grovebury Commercials, Ltd., Grovebury Rd., Leishton Buzzard, Phone 2192.

1956 E.R.F. short-wheelbase tipper, 44G, £475.

HAMBLINS GARAGE, Rectory Rd., Rushden, Northants. Phone. Rushden 3211-3. 940-403

1955 E.R.F. 8-wheel tipper, 6LW, double drive, bulk 1959 body, ready for work.
1959 E.R.F. 8-wheeler, 6LW, bulk tipper, only 8 tons unladen weight, fibreelass body (soutable coal or coke, etc.), automatic greasers, latest cab. low mileage, one owner, good (syres, regainted and ready owner, fully recommended and offered at £3,000 under

1957 E.R.F., Gardner 6LW engine, fixed-wheel double drive, long-wheelbase platform, £900.

ERRINGTONS OF EVINGTON. Leicester 38402.

FODEN

FOUR FODEN DG 6-wheeler tippers, all in first-class mechanical order, all are fitted with Milshaw double-range front-end gears, two are fitted with Ace alloy bodies, 2650 each, no reasonable offer for all four refused. For

leach, no reactive described and the contact c

1948 FODEN 6-wheeler, 5-cylinder Gardner engine, booster gearbox, excellent condition, choice of C. RUSSETT, 155 Millbank St., Northam, Southamp-940-36

A VAILABLE now, 1956 FODEN 8-wheel tippers with gearboxe, 13-eu-yd. alloy bodies. Plot twin-ram tipping sear; choice of three, all in excellent condition. Can be viewed by appointment. Phone, Hoveringham Gravels. Ltd., Lowdham 3171.

FODEN 1959 8-wheeler, 12-speed gearhox, immaculate condition.
FODEN 71-ton registered 1950 4-wheeler, 4LW engine. OPLAR MOTOR TRANSPORT (LYMM), LTD. Phone, Lymm 1234 (Cheshire). 940-388

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MAY, 1960, 7-ton short-wheelbase Trader, 6D engin whole vehicle in very good condition, g775 or near off Automotive Services, Ltd., 50A Overdale Rd., Ealin W.5. Eal 3652.

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1955 Thames 3-ton platform lorry, £250. CHOICE of second-hand 5-7-cwi. vans.

ALL models, new light vans, ex-stock,

THAMES Trader 108-in. tippers, 138-in., 160-in. chassis-cabs. ex-stock. EDBRO tipping sears, ex-stock.

1959 S-ton THAMES Trader, long wheelbase, with Baico extension, one owner, very good con-CENTRAL GARAGE (UPPINGHAM), LTD., Ayston Rd. Uppingham, Rutland. Phone. Uppingham, 340-52

Used Goods Vehicles (contd.)

1960 7-ton THAMES Trader, drop-sided, steel-bodied Edbro tipper, 30,000 miles, all excellent 9.00 x 20 tyres on owner, heater, taxed, main dealer's gustrantee, all engine modification carried out, first-class condition throughout, £595.

KIDDERMINSTER MOTORS, LTD., Main Ford Distributors, Kidderminster 4027. 940-11

1960 Trader 7-10n tipper, 7-cu-vd. U-shape body with wood extension sides, ready for work, £525.

EASTWOODS COMMERCIAL MOTORS, 27 Aston Rd. North, Birmingham, 6. Ast 3467.

940-162

GATES OF WOODFORD,

FORD MAIN DEALERS.

CHIGWELL ROAD WOODFORD GREEN Wanstead 6633.

Wanstead 60.35.

1960 Thames Tradet 6 x 4 platform, power steering and air brakes, £1,800 Thames Trader articulated unit, fifth wheel, £650, £65

1958 Thames Trader 7-ton platform, £620,

1958 Thames Trader 5-ton 5-cu-yd. Anthony tipper, 1958 Thames Trader 5-ton 4D drop-side truck, £400. 1958 Thames Trader 7-ton drop-side truck, £500.

1959 Trader 8-yd. iong-wheelbase tipper, fitted Hydrovac brakes, one owner, very clean, £595. 1959 958 Trader, articulated 25-ft, trailer, Brockhouse, atthamstow, E.17 Larkswood 5337. Billet Rd., 940-331

HUNTER VEHICLES, LTD.,

CROWN WORKS 290 SOUTHBURY ROAD, ENFIELD.

1957 Thames 3-ton boxvan, 525 cu. 4D, one owner, 4-ton tyres.
1956 Thames 3-ton boxvan, 525 cu. 4D, one owner, 4-ton tyres.

IMMEDIATE DELIVERY

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HOWARD 4184 OR 3892.

1960 FORD Trader 2-ton drop-side truck, £465.

1960 FORD Trader 7-ton diesel Jong-wheelbase plat form truck, drop side £675 1959 FORD Trader 7-ton diesel Jong-wheelbase plat form truck, £255 1958 FORD Trader diesel 4-ton platform truck, £290.

1956 FORD Thames 4D 4-ton drop-side truck, £185. 1956 FORD Thames 2-ton van. 4D, £125.

DAWNIER MOTORS, LTD., Ewell By-pass, Surrey, Phone, Ewell 2382 940.300

COOMBS SERVICE STATION (GUILDFORD),

BY-PASS ROAD, GUILDFORD. FOR ALL

FORD TRADER INQUIRIES. PLEASE PHONE, GUILDFORD 62962.

SPECIAL OFFER -1959 7-ton 160-in. Trader truck, choice of two, £550.

PLEASE PHONE GUILDFORD 62962.

TRADER 1960 8-yd, tipper, long wheelbase, twin ram, drop sides, 9.00 x 20 tyres, clean vehicle, £700. Phone, Coppermill 4777 or 4713. 940-247

1959 FORD Trader 6D 7-ton drop-side truck, first-class condition. 1957 distribution of the condition of truck, good con-dition, £325 d-ton platform truck, good con-dition, £325 d-ton platform truck, good con-class of truck of truck of truck of truck, good con-dition, £325 d-ton platform truck, good con-class of truck of truck of truck of truck, good con-dition, £325 d-ton platform truck, good con-dition, £325 d-ton platform truck, first-truck, first-truck, first-truck, first-truck, first-truck, first-day condition, £325 d-ton platform truck, good con-dition, £325 d-ton platform truck,

1959 Thames Trader 6D diesel 7-ton flat. 20-ft. body in new condition, good tyres, £4.8. CASINO CAR SALES. Rezent House, Prescott Rd., Queens Drive, Liverpool, 13. Phone, Stoneycroft 4784, 940-226.

FORD 3-ton flat, 1955, 4D diesel, £110. Lawrence Affreton, Derbys. Phone 505. 940-287

1960 FORD Trader long-wheelbase power tipper, E550, PEARL STREET GARAGE, 17 Pearl St., Sheffield. Phone 19139, 1399329. 940-1534

GORDON KING MOTORS, LTD.

FORD AND THAMES DEALERS.

TRADER 4D diesel 4-ton chassis, fitted with 1.250-cu-tic low-loading Luton body, new and unregistered, ex-works, for immediate delivery, E1.175. TRADER 4D diesel 4-ton low-trame chassis, fitted with 1.250-u.-d. body, as above, immediate delivery from

1957 Thames Trader 5-ton drop-side truck, fitted of diesel engine, in excellent condition, £275. ET us quote you for your special body requirements. MITCHAM LANE, S.W.16. Streatham 3133-4.

1960 Long-wheelbase drop-side tipper. £675 Levton-

L. A. RICH

PORDSON ET6 petrol 6-wheeler chassis and cab unregistered, ex-Ministry, milease 900, price £220.

514 COLDHAMS LANE.

CHERRY HINTON. Phone, CAMBRIDGE 47597.

1960 FORD Trader. 6-wheel flat. £975. BROWNHILLS MOTOR SALES, Watting St. (A5), Brownhills, Staffs. Phone, Brownhills 2525-6-7, 940-438

BENTLEY BROS. (SHEFFIELD), LTD.,

VAUXHALL-BEDFORD MAIN DEALER. 71 THE WICKER, SHEFFIELD, 3. Phone 29281.

1958 Thamics Trader 5-ton long-wheelbase diesel drop-side truck. Earlon 2-speed axle. R.25 x 20 12-ply tyres, low milease, excellent in every detail. £450. H.P. Facilities can be arranged for selected clients.

1958 7-ton long-wheelnase 20-ft. platform. Baico 1959 7-ton long-wheelbase platform, £595.

959 7-ton short-wheelbase tipper, drop sides, £485. HUDSON, Donester Rd., Bawiry, Yorks, 362, 456, 457

Ford Thames and Fordson Wanted

WANTED, FORD 4D vans and Perkins, all capacities from 1956 onwards. Chandlers Motors, Ltd., 71 Greenwich South St., London, S.E.10. Gre 2033-4 940-305

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1959 KARRIER Bantam boxvan, with double sliding sides (8,000 only, low loading height, 25 x 6 translucent roof, £555. Phone, Micheldever 313 940-412

LAMBRETTA

1961 LAMBRETTA 3-wheeler van. as new. BROWNHILLS MOTOR SALES, Watling St. (A5), Brownhills, Staffs. Phone, Brownhills, 2525-6-7, 940-439

1959 And 1960 LEYLAND Octopus and Hippos short-wheelbase tippers with Pilot gears and JEFFREYS COMMERCIAL MOTORS, Swansea. Phone

BIRD'S COMMERCIAL MOTORS, LID.

BIRMINGHAM ROAD. 5TRATFORD-ON-AVON. Phone 3222-3-4 and 2136. Grams "Quicksale."

ONE LEYLAND Beaver tractor, 1983, complete with Dyson 25-ton trailer. 16 (t. in well, first-class ONE LEYLAND Super Beaver tractor, 1961, complete with 25-ton Tasker trailer. 940-277

LEYLAND Octopus 8-wheeler, reconditioned by manu-facturers, new tyres, practically brand-new machine LAULGO, LTD, West St., Havant Hants

1947 Octopus long-wheelbase double drive, platform body, £259.

JOHN HUDSON, Doncaster Rd., Bawtry, Yorks.

Phone, Bawtry 362, 456, 457.

EN-W.D. 4 x 4 trucks, gond selection. Cundey and Stewart, Ltd. Affreton, Derbyshire. 940-803

Used Goods Vehicles (contd.)

1960 LEYLAND Octopus (flat). 1959 LEYLAND Octopus (flat).

1955 LEYLAND Comet, 6-wheel tipper, 1900. 1955 LEYLAND Comet, 6-wheel tipper, £800

JEW LEYLANDS from stock, BROWNHILLS MOTOR SALES, Wathing St. (A5), Brownhills, Staffs, Phone, Brownhills 2525-6-7.

MERCEDES-BENZ

ROSE AND YOUNG (ENGINEERS), LTD., offer:-1961 MERCEDES-BENZ L319 diesel low platform forty, works mileage, cost new £1,480, now 1 at £985. 10 STREATHAM HILL, S.W.2. Tube Hill 0196.

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EX-W.D. 4 x 4 tractors with winch, from £100 each Cundey and Stewart, Ltd., Affreton, Derbyshire, 940-802

PALMERSTON OF KINGSTON. MORRIS AND MORRIS-COMMERCIAL RETAIL DEALERS

RELIABLE used vehicles in stock.

PALMERSTON COMMERCIAL MOTORS, LTD., 75-77 Penrhyn Rd. Kingston 5618. 940-134

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PARADISE MOTORS, Geldart Rd., Birstall, Yorkshire. Phone, Morley 1029, 20-ton SCAMMELLS and 25-ton low-loader trailers, new cab and latest-type bonnets and wings.

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CARAB 3-ton and 6-ton diesel and petrol units.
ScaMMELL trailers, 3-12-ton, for use with Bedfords and other 4-wheeled tractors; early delivery.
CAMMELL 8-ton 23-fc, sided trailer, immediate between the control of CVM articulated outlits and Routeman 14-15-ton 8-wheel rigid; early delivery.

LONDON'S largest SCAMMELL spare parts stockists.

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WANTED, second-hand 6-ton Scammell Scarab, 18-ft, trailer, Ledgers Box Co., Ltd., Manchester St., Hull,

SEDDON

1956 SEDDON Mk. 14 SLW tipper, Pilot U4, ready for work. Smith's Garage, Canal St., Notting-yah-158

ham. Phone 5501.

1960 SEDDON 15-10, 5LW Gardner engine, Fibreglaw cab. 21-fl., platform body.
1959 SEDDON tractor unit, Commins engine, fifthwheel coupling air brakes.
1959 SEDDON tractor unit, 6LW, fifth-wheel
coupling air brakes.
SEDDON tractor unit, 86 engine, Carrimore
SWALD TILLOTSON, LTD., Summit Works, Burnley,
Phone 201-4.

SENTINEL

1957 SENTINEL. Leylinder diesel engine with Gardner engine, what offers? Six Way Garage. Cross Hands, Llanelly, Corms. Phone, Cross Hands 376.

STANDARD

1956 STANDARD Vanguard diesel van. well above average condition, £195. Edgware 2555, 940-208

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SEVEN SISTERS ROAD. TOTTENHAM, LONDON, N.15.

PLE DISTRIBUTORS FOR THORNYCROFT DMMERCIAL VEHICLES FOR LONDON AND HOME COUNTIES NORTH OF THE THAMES.

WE CAN NOW OFFER ADVANTAGEOUS DELIVERY OF ALL THORNYCROFT MODELS.

Dec. 22, 1951 THE COMMERCIAL MOTOR 25

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1955 TROJAN, PJ desel, large capacity boxvan, excellent condition, £145. Edgwale 2555, 940-209

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MARNHALLS (CAMBRIDGE), LTD.,

OFFER THE FOLLOWING COMMERICAL VEHICLES

AIRPORT GARAGE, NEWMARKET ROAD. CAMBRIDGE.

NEW AUSTIN 7-ton long-wheetbase forward-control diesel chassis-cab.
NEW AUSTIN 1-ton forward-control yan, petrol or

JEW AUSTIN 16-18-cwt. Omnivan. NEW AUSTIN 16-18-cwt, Omnitruck

NEW AUSTIN 13-seater Omnicoach,

1960 Thames 15-cwt. van, 15,000 miles, £320.

1950
Thames Trader 6D long-wheelbase 7-ton platform truck, good order, £650,
1950
AUSTIN 7-ton long-wheelbase forward-control diesel platform truck, £600,
1957
\$\frac{1}{25}\$\text{TN}\$ 11-ton forward-control diesel van.
2550
AUSTIN 3-ton diesel boxvan, 300 cu. ft., £200

63 BRIDGE STREET, PETERBOROUGH

1959 BEDFORD Kenebus, beige, fitted heater, taxed, good tyres, £425.
1959 AUSTRN A35 van, green, low milicage, good tyres, £125.
1959 MORRIS Minibus, maroon, £410.

958 BEDFORD 7-ton drop-side truck, £600.

1953 AUSTIN A40 van, green, good tyres, £120

120 GOLDINGTON ROAD, BEDFORD.

1959 AUSTIN A35 van, £250.

1958 FORD 7-cwt. van. £265.

958 AUSTIN A55 van. £245. 957 MORRIS Minor pick-up. £225.

757 AUSTIN 5-ton long-whee/base normal-control dieset truck, £420.
756 Hammes 4D 3-ton drop-side truck, £250.
757 AUSTIN A40 pick-up, £175.

1955 AUSTIN A30 van. £150. 1953 DODGE P6 truck, £175. 1952 Short-wheelbase LAND ROVER, £120.

1939 AUSTIN 8 van. £55.

BARNARDS, STOWMARKET.

CODEN. 1952, 6-wheeler, Gardner 6LW engine, 9.00 x 20 tyres, 24-ft, platform, oil boost brakes, 4325, EDF-GRU. 1959 (Movember). 8 model: 7-lonner, 300 dissel, 2-speed aske, fitted Boys third aske, 22-ft, alloy platform, 1965.

B.M.C. 1958, 7-ton long-wheelbase tipper. Telescommon of the state of the sta

PHONE, Stowmarket 621 (five lines).

BIRMINGHAM COMMERCIAL OFFER:-

NEW MORRIS 30-cw: and 5-ton Luton van. 675 cu. ft.-

1954 FODEN 6-wheeler.

1957 ATKINSON 8-wheeler ripper.

1960 COMMER TSI.

H.W. haulage bus., approx. 6-ton, open A.

WEST mid. haulage bus., 21 tons, open A, all modern

BIRMINGHAM COMMERCIAL MOTORS. LTD.

WRIGHT STREET R/O 560 COVENTRY ROAD, BIRMINGHAM, 10.

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ALL TYPES OF COMMERCIAL VEHICLES.

OVER 100 IN STOCK

1960 FORD Trader 6D with new 1,200-cu.-ft. Plymax 1960, November, BEDFORD J-type short-wheelbase and tipon FORD Trader 6-wheel County extension, 21-ft. 1960 FORD Trader 6-wheel County extension, 21-ft. 1960 FORD Trader 7-ton flat, £725.

960 June, FORD Trader 6-wheel lipper, double double drive, third axie, 20-cu-yd, body, £1,550.
960 B.M.C. 7-lon diesel tipper, 2-speed axie, steel body, choice of three, £750.
960 body, choice of three, £750.
960 body, 9,60 x 20 tyres, from £675.
961 FORD Trader 6D 7-lon flat, choice of 10 from 50 DDDGE 6-ton normal-control abort-wheelbase on the proper, new wooden drop-side body, P6 engine, new wooden drop-side body, P6 engine,

1959 tipper, new wooden drop-side body. Pe engine.
1950 FORD Trader 160-in, wheelbase steel drop-side
1950 FORD Trader 6-wheel flat, County extension,
1950 FORD Trader 6-wheel flat, County extension,
1951 FORD Trader 6-wheel flat, County extension,
1952 FORD Trader 60 Ford truck, 8.25 z. 20 tyres,
1953 FORD Trader 6D 7-ton truck, 8.25 z. 20 tyres,
1954 FORD Trader 6D 7-ton truck, 8.25 z. 20 tyres,
1955 FORD Trader 6D 7-ton truck, 8.25 z. 20 tyres,
1956 FORD Trader 4D 7-ton truck, 8.25 z. 20 tyres,
1957 FORD Trader 6D 7-ton truck, 8.25 z. 20 tyres,
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1958 FORD Trader 6D 7-ton truck, 8.25 z. 20 tyres,
1958 FORD Tra

1957 BEDFORD S-type 7-ton medium-wheelt double-ram drop-sided tipper, Bedford 1957 BEDFORD 10-12-cwt. fully equipped ice cream

etc. £330.

1954 A.E.C. Mercury 7.75 engine, 21-ft. platform,
1954 9-00 x 20 tyres, x775.

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THAMES Trader, 1959, medium-wheelbase, 7-ton diesel, fitted with twin front-ram tipping sear and wood.

ALBION Reiver, 1956 long-wheelbase 6-wheeler, aluminium underframe, wood floor, good condition, one owner, £600. TIPPERS.

THAMES Trader 1960 7-ton long-wheelbase platform in exceptionally good condition throughout, £625. BEDFORD 1956 R6 long-wheelbase platform, complete with hydraulic sack loader, in outstanding condition.

MAUDSLAY 1951 8-wheeler, long wheelbase, 24-ft.

BEDFORD 1954 (Dec.) 5-ton A-type long-wheelbase platform, petrol engine, in good condition, £250.

B.M.C. 1957 diesel rigid 6-wheeler, platform body, condition throughout, £750.

PRISTOL 1953 8-wheeler, long-wheelbase platform.

LONG WHEELBASE.

HANDS 30-ton 20-ft.-in-the-well low-loader with Thompson 4-ton winch, £2,197.

BEDFORD KG52 12-ton tractor unit, 350 engine, air brakes, 2-speed axle, 5-speed gearbox, 9.00 x 20 12-ply tyes, £1.700 5s. EYLAND, Super Comet 400 engine, 10.00 x 20 14-ply Lyres, heater and demister, fitted with up-to-the asparently blower, heavy-duty p.t.-o., air silencer, all extras for bulk delivery, including two quick-release 10-ft. hoses, 42-25 complete in prime.

B EDFORD, Comet engine, KGTC8, rigid 6-wheeler Vork third axle, 9.00 x 20 12-ply tyres all round 2-speed, 5-speed Pilot twin front-ram tipping gear and wood drop-side body, £2,816.78.

TEW BEDFORDS. Super Vega, 41-seater, 300 diesel, N-1-type mouldings, top sliding windows, glass rool oparters, headrail racks, recirculating heater, trimmed in red moquette (Firths 426), exterior blue-ivory, ready for mimediate delivery, 64,126.

A.E.C. Mustaing twin steer chassis and cab. all brakes, on 10.00 x 20 14-ply tyres, 23,095.

A.E.C. Mercury, fitted with Rapier 4-yd hish dishydraulic drive, complete and for immediate delivery.

NEW VEHICLES

YORK trailers. Full range nearly always in stock.

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WEST END GARAGE.
CHIPPING SODBURY, BRISTOL. Chipping Sodbury 2277 (four lines).

HARRY DANDO.

1959 BEDFORD Utilibrake, in immaculate order, black and white, well tyred.
1959 BEDFORD Workobus, in good order throughout, painted green, bargain price.
1958 BEDFORD jong-wheelbase van in green,
1957 BEDFORD van in green. Come and in-pect.
940-166

SPECIAL FEATURE.

1958 AUSTIN 15-cwt. Omnivan with side loading

SECOND-HAND STOCK:

Used Goods Vehicles (contd.)

1960

1959.

LIGHT COMMERCIALS

HEAVY COMMERCIALS

1960 AUSTIN forward-control diexel, medium wheel-base, 8 cu. yd. meral F.S. tipper, Anthony hoist, Autovac brakes, underfloor ram, one owner (cost new

late, E995.

1959 MORRIS forward-control 1-ton diesel van, one
1959 owner, £395.
1959 double deck hydraulic operated car transporter, recently reconditioned throughout (cost mearly

porter. recently reconditioned throughout cost nearly 1956 FeBr 2 (1950). S-kom box van (700) cu. ft. capacity). 1956 FeBr 2 (1950). S-kom box van (700) cu. ft. capacity). 1956 FeBr 2 (1950). FeBr 2 (1

haul. £1,175.

1948 Model A.E.C. 9.6 6-wheel 24-ft, platform truck.

1948 10.00 x 20 tyres, one owner from new, in 1961 condition, choice of two from £495.

ARTICULATED 23-ft. 3-way loader boxvan with hydraulic tail lift. fifth-wheel and S.A.L. couplings.

A.E.C. 7.7 8-wheel long-wheelbase chassis and cab.

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1938
1943 E.R.F. tractor (5-cylinder Gardner), good tyres.
1954 LAND ROVER (petrol).
1955 AUSTIN 2-3-ton diesel truck, complete with
SEVERAL diesel trucks under £275 in good order.

NEW VEHICLES IMMEDIATE DELIVERY.

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EYLAND Super Comet Model 14SC-11R chassis and

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LARGE selection of platforms, tippers, artica., cranes and trailers. Please send for list. HACKETTS DISPOSALS. LTD.,

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AUSTIN HOUSE, CHESTER STREET,

SHREWSBURY

LISTED BELOW IS A SELECTION FROM OUR

EYLAND Comet Model CS3-12R chassis and cab

COMMER 1-ton diesel vans, choice of colour. NEWCASTLE (STAFFS) MOTOR CO., LTD.,

1957 COMMER 7-ton tipper (choice of two).

1958 COMMER 7-ton tipper. 1958 AUSTIN J2-type van.

brakes, underfloor ram, one owner (cost new hoice of two from Edo (mornal-control, 300 diesel, Model BEDFORD 36 normal-control, 300 diesel, 8 c.u. yl. metal F.S. tipper, one owner, £695. August, FORD 6D Trader, 7 cu. yd. drop-side wheal bolied tipper, 9.00 x 20 tyres, immacu-

1961 COMMER 15-cwt, van, nominal mileage, side
1958 Lates AUSTIN 7-ton long-wheelbase drop-side
1958 truck, reconditioned throughout, on good tyres,
1960 B.M.C. diesel engine, in immaculate order
1954 B.M.C. 3.4-fitte diesel engine, well tyred, ready

940-355

B43

1959 Trader 6-wheel, drop-side body, £1,000. 1958 Trader 7-ton, 21-ft. body, reconditioned, £585.

WORKSHOPS 24 HOURS. TRADERS EX STOCK. QUALITY USED TRUCKS.

Dec. 22, 1961-THE COMMERCIAL MOTOR 31

GARLICK, BURRELL AND EDWARDS, LTD. 188 REGENT ROAD,

LIVERPOOL, 20.

AT THIS TIME OF THE YEAR WE WISH TO

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THE EMPHASIS THIS WEEK BEING ON

THAMES VEHICLES

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A Superb 1960 REDFORD S-type 7-ton drop-side truck, it is websited is in absolutely immaculate condition body length is 18 ft., double drop side, 9.06 x 20 type equipment and most be one of the keenest Hedford used it be offered for sale, painted in black and cream, low

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1960 Thames Trader 7-ton long-wheelbase platf fruck, fitted heater, screenwish, exterior visor, chrome front discs, in immaculate condulon; ch

1960 Thames Trader 7-ton long-wheelhase platfor truck, fitted heater screenwash, exterior stessor, chrome front discs, in immaculate condition, chol

of two

1958 Thames Trader 6D platform truck, good allround condition.

1958 Thames Trader 6D platform truck, good all1958 Thames Trader for platform truck, good all1958 Thames Trader ions wheelbase twin-ram tipper
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1958 Thames Trader 5-ton 4D platform truck, in 1958 EBFDFORD 5-ton long-wheelbase twin-ram BEDFORD 5-ton long-wheelbase twin-ram leader 4-ton trioning gar 6.595.

1957 BEDFORD 800-c-in diesel long-wheelbase platform truck, choice of two.

PART-EXCHANGES ACCEPTED, DEMONSTRATIONS AT YOUR PREMISES, DISTANCE NO OBJECT, AT ANY TIME TO SUIT YOUR OWN CONVENIENCE.

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PERKINS DIESEL SIGNHOLDERS.

1960 Trader articulator, new engine, 10,000 miles, Eston 2-speed axle, S.A.E. fifth-wheel coupling. 1958 DODGE chassis and cab. Leyland engine, very clean schiele, £700.

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BEDFORD.

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1958 BEDFORD 7-ton long-wheelbase tipper, as new 1957 B.M.C. 7-ton long-wheelbase truck, £450.

AND MANY OTHERS FROM £150. YOU CAN COUNT ON

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1958 BEDFORD 15-cwt. Luton van full translucent

1959 FORD 10-12-cwt. van, heater, excellent con-

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1957 BEDFORD 7-ton, fitted with a Leyland engine, floor, 18-fl. platform body.

1957 COMMER TS3, fitted with 9.00 x 20 tyres, alloy frame, wood 1957 COMMER TS3, fitted with 9.00 x 20 tyres, air thinks, 18-fl., 6-in, platform body, one with canopy over roof, choice of three from £375.

1954 BEDFORD. Tecently fitted with replacement provided with replaceme

1953 SEDDON diesel Mk, VII, recently fitted with Perkins P4 engine, insulated van body, one 1955 SENTINEL light 6-wheeler, fitted with 24-ft.

1950 MAUDSLAY, fitted with A.E.C. 7.7, fitted with an aluminium body, fitted with complete

ALWAYS IN STOCK.

DIESEL-ENGINED VEHICLES FROM STOCK.

£100-£200.

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1955, December, THORNYCROFT Sturdy Star box-van, ex-C licence operator, £255. November, SEDDON 6-wheel 24-ft. flat, Leyland 375 engine, 10.00 x 20 tyres, £1,750. CONFIDENTIAL H.P. TERMS ARRANGED.

HILLS DIESELS, LTD.,

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1955, January, SEDDON 3-ton boxvan, £150.
1955, FODEN 6-ton, 4LK Gardner engine, drop-side truck, £425.
1955, THORNYCROFT 8-ton drop-side truck, Burton-wood 3-ton tail lift, all good tyres. £255.
GOOD selection of BEDFORD CA 10- and 15-cwt. yans and utilities from £100.

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1959 STANDARD 15-cwt. van.

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1955 BEDFORD 10-cwt. van.

1959 BEDFORD Workebus.

1960 Workobus. 1959 BEDFORD 15-cwt. Luton van.

1959 BEDFORD 5-ton truck, petrol engine.

1958 5-ton tipper, diesel engine.

1957 MORRIS 5-7-cwt. van.

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1961 Trader 6-wheeler drop-side tipper.

1961 7-ton Frader long-wheelbase, alloy body, 8,000 miles only.
1957 6D Trader short-wheelbase tipper.
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1953 LEYAND Octopus 8-wheeler, 19-ft. treble drop-side viper.
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WINDLE CITY GARAGE, MOSS BANK ROAD, ST. HELENS. Phone, St. Helens 6381.

Thames Trader 108-in-wheelbase steel-body tipper, £685.
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1957 Thames Trader 5-ton U-shaped tipper, £450. 1956 B.M.C. 7-ton power steering, 2-speed axie, £575.
1957 SEDDON diesel tipper, drop-vide body. Fibre-glass cab, very clean, £595, 940-229

MAYDAY RD., Thornton Heath, Croydon. Thornton Heath 3473-4-5.

Used Goods Vehicles (contd.)

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A HAPPY AND PROSPEROUS NEW YEAR

NO MOTOR AUCTION SALE IN JANUARY, 1962. NEXT SALE, THURSDAY, FEBRUARY 1, 1962.

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SOUTHERN COUNTIES GARAGES, LTD.,

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A GENTS for Austin, Ford and Standard commercials; always in stock.

JEW Thames Trader 4-ton drop-side truck, 152-in.

NEW Thames Trader 4-ton drop-side truck, 152-in. Wheelbase.
NEW AUSTIN 4-ton 404 forward-control chassis-cab, diesel. STIN 702 forward-control 7-ton chassis-cab, 120 in. wheelbase.
1960 body, also fitted with 9-00 x 20 tyres, cab beater and flashers, 25,000 miles, £895.
1959 Thames 2-ton van with 4D engine, £425.

1959, December, AUSTIN 7-ton diesel, platfe 1959, truck, 2-speed axle, power steering and hea 1959 Thames Trader 7-ton short-wheelbase tipp metal body and heater.

CRAWLEY 20191 (SIX LINES). 940-338

IDEAL GARAGE,

MICHELDEVER. COMMERCIAL VEHICLE CENTRE ON A33.

Sales WITH 24 HOURS SERVICE.

1959 KARRIER Bantam boxvan with double sliding sides, 18,000 miles, only £555. 1957 FORD Thames normal-control 4-ton 4D, 14-ft. 6-in. double drop side with bolster, £255.

THREE COMMER EDV. 1959, 1957 and 1956, from

FOR MORE DETAILS OF OUR STOCK

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NEW LEYLAND Beaver tractor chassis-cab, with P680 rengine and fifth-wheel coupling. NEW LEYLAND Comet CS3 tipper, Pilot gear and Liz-cu-yel alloy body.

w ALBION Reiver Model RE25AN chassis-cab NEW ALBION Reiver Model RE27AN chassis-cab

NEW ALBION Chieftain Model CH3AXL chassis-cab

NEW SCAMMELL 23-ft. 10-ton platform trailer.

NEW BEDFORD TW diesel 4-ton drop-side truck, 1957 October, BEDFORD Luton van approximately engine, in very good condition.

1955 LEYLAND Octobus long-wheelbase platform truck.

1947 BRISTOL 31-weater buses.

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1955 LEYLAND Octopus, overdrive, platform 25-ft. bargain, E785. Dyson 4-wheel 8-ton drawbar tipping trailer, £225. Walker and Son (Haullers), Ltd. Ollerton Rd., Tuxford, Newark, Notts.

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EARLIEST DELIVERY ALL MODELS.

NEW Thames Trader 7-ton 6D diesel tipper, steel body immediate delivery, choice of two, £1,450. NEW AUSTIN 1-ton petrol van, primer, £716.

1958 DODGE 8-ton forward-control, 3144 BY, 8-yd. tippers, Leyland engines, choice of two from

1875. 1956 DODGE 6-ton diesel 6-yd. tippers, 103 AP6 1950 DODGE 5-ton diesel Luton van, fitted Ford 1950 Homes Trader 6D 7-ton tipper, choice of two.

1960 BEDFORD CA van, 10-12 cwt., 6,000 miles

Used Goods Vehicles (contd.)

USED UNITS.

1959 AUSTIN B.M.C. chassis-cab, fitted 5.1 B.M.C.

1959 engine.
1959 A.E.C. 6-wheel Mammoth Major, A.E.C. 7.7
6-cylinder desel engine.
1958 FORD Trader van, Ford 6D 6-cylinder diesel engine, Tayler 10-ton low-loader traiter coup-DODGE Kew diesel tipper, Perkins P6

1957 957 6-cylinder. 956 BEDFORD long-wheelbase platform. Perkins R6 6-cylinder diesel engine. 956 THORNYCROFT Sturdy Star, TR6 6-cylinder 1956

1930 diesel enseine.
1941 LEVLAND 8-wheel platform vehicle, Leyland
1948 MAUDSLA Mogul short-wheelbase tipper.
1943 ATKINSON 6-wheel platform vehicle, Gardner
61. Wengine.

SEND for detailed, priced list of all our vehicles.

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1960 Trader artic. unit. £770.

OR with 22-ft. trailer, £1,100, 1958, October, Trader 7-ton 6-yd. drop-side Anthony tipper, one owner, £595.

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PRAILLS (HEREFORD), LTD., COMMERCIAL VEHICLE SPECIALISTS.

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NEW Thames Trader 7½-ton diesel 138-in.-wheelbase chassis-cab, fitted with Edbro twin ram lipping gear and 124'f. 6-in. all-steel [10-cu-yd. body, 9:00 x 20 tyres.]

1960 7-ton Tales Trader diesel 16-fl. 6-in. drop-side body. 8.25 x 20 tyres.

1959 7-ton AUSTIN diesel. 18-fl. drop-side body. 9:00 x 20 tyres.

1959 10-fl. New Trader diesel 20-fl. platform for the property of the platform for the

PRAILLS (HEREFORD), LTD.,

Phone 4221.

HOLMER ROAD, HEREFORD.

SEDDON 1959 (November) 6-wheel 24-ft. flat. Leyland engine. Seddon 3-ton boxwin, 1954, 2200. A.E.C. Seddon 3-ton boxwin, 1954, 2200. A.E.C. Seddon 3-ton boxwin, 1954, 2200. A.E.C. Sede 1968, 1

1959 B.M.C. 7-ton 7-cu-yd. short-wheelbase tipper, Faton 2-speed axie, £773. Frator, 160-in. wheelbase, with 1959 frone-lide truck body. £650.

GILBERT RICE, LTD., 2-14 Worthing Rd., Horsham, 940-95

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1960 BEDFORD J 300 tractor with Scammell drop-side semi-trailer, very clean and well shod,

1958 ALBION Chieftain Model CH3L with light-alloy platform body, clean, choice of two, £850, 1957 DODGE 106P6 long-wheelbase tipper, c/w beet with ram gear, clean, one owner,

1957, Iwo BEDFORD S long-wheelbase, with Comet engine, suitable for spares,

cech e 225

LEYLAND E COS2-4R platform truck with
1956 straw rack, one owner, £650.

1956 straw rack one owner, £650.

1955 A.E.C. Mercury Mt. I, light-alloy platform,
1955 A.E.C. Mercury Mt. I, light-alloy platform,
1955 ALBION Reiver with 23-ft, light-alloy dropside body, one owner, £650.

1956 DODGE 105P6 long-wheelbase tipper, choice of two, each £250.

36-42 EYE ROAD. PETERBOROUGH. Phone 66161.

ATKINSON VEHICLES (SCOTLAND), LTD.,

CARLISLE ROAD. AIRDRIE 2881-2.

NEW ATKINSON 8-wheeled double drive, fitted Gardner 161N 6-speed gearbox, air brakes, chassa and cab NEW ATKINSON 4-wheeled tractor unit. 61N diesel engine, 6-speed gearbox, double helical axle complete with fifth wheel plate.

NEW ATKINSON 16th 6-wheeler, fitted 51W, 5-speed gearbox, soutable for 19-ft; tipper, double-drive, 1958 61.W, Pilot under-floor gear, automatic tubescation, 25-ca.-yd, body, 1958 ATKINSON 51W twin-steer, 25-ft, platform, 1954 ER.F. twin-steer, fitted 51W, 21-ft, platform.

1954 E.R.F. 4-wheeled 21-ft. platform, firted SLW

E.R.F. Tractor, fitted 6LW, fifth wheel plate.

Two transporters, 40-50 tons, 24 wheels, air brakes, as new, £1,000 cach.

NEW Tandem Northern trailer, 27-ft, platform, 10.00 x 20 tyres, air brakes.

NORTH OF SCOTLAND REPRESENTATIVE: MR. A. LITHGOW. Phone, Aberdeen 41051.

BENTLEY BROS. (SHEFFIELD). LTD.,

VAUNHALL-BEDFORD MAIN DEALER 71 THE WICKER, SHEFFIELD, 3. Phone 29281.

1958 BEDFORD 5-ton normal-control 3/00-cu-in, catch good (yee, ready for immediate use, £395.

1958 Thames Trader 5-ton long-wheelbase diesel drop-ster, low mileage, excellent in every detail, £450.

1958 BEDFORD 7-ton long-wheelbase forward-control drop-side truck, 200-cu-in, diesel, £450.

2012-1949 (yee, one local owner, fit for years of work, £261.

1957 DODGE 7-ton diesel long-wheelbase twin-ram x 20 12-ply tyres, owner-driven from new, immaculate 1955 BEDFORD 7-ton long-wheelbase drop-side

H.P. Facilities can be offered on all the above vehicles.

1959 Trader 7-ton 6D 7-cu.yd steel body tipper, 1960 Trader 7-ton 6D 7-cu.yd steel body tipper, 1960 Trader 7-ton 6D 7-cu.yd drop-sided steel body, 1960 Trader 7-ton 6D 7-cu.yd drop-sided steel body, 1960 Trader 8-cu.yd 1960 Steel body, 1960 Trader 8-cu.yd 1960 Steel body, 1960

1950 Willys JEEP, M.o.T., £75.

958 FORD Thames 7-cwt. van. £210.

958 FORD Thames 4-ton 4D truck, very good condition, £425.
958 DODGE 6-ton tipper, good condition, £375.

955 BEDFORD Worksbus, 12-scater, new engine lists fitted. £200 Dormobile caravan, two berths, £400 Dormobile caravan, £400 Dormobile carav

960 DORMOBILES or 12-scaters for sale or hire.

ONTRACT here of Land Rovers and light vans.
Apply for terms.
OOMBS COMMERCIALS (GUILDFORD), LTD.,
Portsmouth Rd., Guildford, Surrey Phone, Guildford

WALTON MOTORS.

£15. As new stabilizer for BEDFORD articulated.

£85. MAUDSLAY, 7.7 engine, 8-ton torry.

£100. BEDFORD diesel, Scammell tractor £75. 1954 LEYLAND Comet 90 chassis and cab.

£50. Perkins P6 engine complete with A-type Bedford fittings or Ford. £20. Pilot single-ram tipping sear for A-type

BEDFORD petrol low-loader unit and trailer, knock-out buck-end, 8-ton, clean condition. 255 Walton Lane, Liverpool, 4. Adaptee 1873

Used Goods Vehicles (contd.)

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COMMER RETAIL DEALERS.

1961 GUY Invincinte 8-wheel long-wheelbase tupper, and many extras large bulk body, sensine mileage 8,000 only, has only worked three months, as brand new, cost almost 8,500 of few months ago, our price only 83,650, \$1,275 ton artis, 21-ft, trailer with large container box body, Leyland Comet engine, 5-speed gearbox, small mileage, very clean and good condition, cost almost 8,3,000, \$1,000 of Themes Trader 7-ton short-wheelbase mileage 900 only, one only, cannot be regulated and proper large drop-side body, overhaulted BEDFORD diesel 7-ton long-wheelbase tipners, and pointed 1550 of the 1550 only 1500 of the 1500 only 1500 o

1957 BEDFORD diese 9,00 x 20 tyres, been well maintained, choice of three.
1957 BEDFORD diesel 7-ton long-wheelbase lorry, with A licence, general goods, South Eastern area, only £1,975.

Silcence in most areas, let us have your inquiries. 25 FURLER particulars of the above on request and some hire-purchase available.

HADFIELD.

HYDE, CHESHIRE. Phone, Glossop 2902-3. AFTER HOURS 2356.

1960 A.E.C. 8-wheel apper, as new. 1958 BEDFORD 7-ton long-wheelbase drop-side. 960 COMMER TS3 long-wheelbase tipper.

DODGE twin steer tipper, alloy body, Leyland 959 FODEN 8-wheel platform, 959 FODEN 25-ton tractor unit.

1957
LEYLAND Comet long-wheelbase tipper, alloy tipping gear body.
LEWAYS 30 modern used vehicles in stock.

LL new Leyland and Albion chassis in stock.

1958 COMMER TS3 tractor, 5-speed David Brown trailer, fifth-wheel coupling, air brakes all round.

1958 Trader 4D 144f; 6-in, Pilot tipper, front end, the coupling of the cou

condition.

1959 Trader AD 14-ft. 6-in. Edbro single-ram tipper.

1951 Also in good seneral condition.

1953 Single front-end ram, reconditioned engine, robust heavy-duty white.

LINCOLNSHIRE MOTOR CO. (SCUNTHORPE).

LID. Brigs Rd., Scunthorpe, Phone 3834, 941-6101

COMMERCIAL VEHICLES SALES AND REPAIRS. L TD.

A.E.C., MORRIS-COMMERCIAL AND

YORK. 959 ALBION Clydesdale CD21L, new tyres. 6-speed, heater, drop-side, 21-ft., in fine order. ALBION Chieftain 7-ton 16-ft. 6-in, light alloy flat, good tyres. 952 PODEN 8-wheeler, 2-stroke engine, 24-ft. flat alloy hody, good tyres. 956 7-ton B.M.C. platform.

1956 7-ton B.M.C. platform. 1955 A.E.C. Mercury Mark I tipper. 1950 ATKINSON 8-wheeler, flat platform.

CRANES CLOSE. Phone 20223.

940-463

LEYLAND and E.R.F. pole wagon outlits for sale.
Prices and details, apply Williams and Son. Bromyard.
Phone 3133, 2171.

GORDON GARAGE (LEYTON), LTD.

1958 FORD 4D 2-ton van.

1960 FORD 7-cwt, van, NEW BEDFORD 15-cwt, diesel van,

209-219 LEA BRIDGE RD., Leyton, E.10. Phone, 940-59

1960 DODGE 7-ton platform truck. 2-speed axle, air 1959 B.M.C. 5-ton diesel trucks. 18-ft. bodies, good condition, £875. 1959 Condition, choice of three, from £485. 1959 Thames Trader 7-ton tipper, choice of five from £325. 1960 Completely overhauled, guaranteed, £825. Arnold completely overhauled, guaranteed, £825. Arnold 2771.

1959 FORD Trader, petrol, 4,000 miles only, fitted new horsehox hody for four. Fibregiass skinned, side and rear loading, £1,400.

A USTIN 3-, 5- and 7-ton chassis-cabs with heavy-duty equipment from stock at list price.

A USTIN 14 pick-up, list price.

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FORD AND SLATER (LINCS), LID.,

MACAULAY STREET, GRIMSBY.

LEYLAND ALBION BEDFORD

1957. July, COMMER TS3, flat platform, recon-citioned engine.
1959 LEYLAND Super Comet 6-wheeler, Boys exten-sion, 23-ft. 6-in drop-sided body.
1954 SEDDON flat platform (good condition), £150,

1960, November, LEYLAND Comet chassis and cub
1955, alloy flat platform,
Several, 1954 Redford and Austin long, and shuriSwheeld 1954 Redford and Austin long, and shurishuring the several severa

FORD AND SLATER (LINCS), LTD., MACAULAY STREET, GRIMSBY.

Phone 57181.

HENSMANS, of Brentwood 5252, offer .-

1956 Thames 3-ton D4 boxvan, 750 cu. fr., £225, 1955 LAND ROVER, petrol, good condition, £210,

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1961 A.E.C. Reliant Siesta 41-seater full-luxury virtually brand new. his superb latest type couch is finished in red and very light grey, with red moquette trim, front entrance door, fitted air brakes, automatic lubrication, heater and many other extras, cost new £5.020, this coach is offered at the lowest ever price of £4.595.

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1951 A.E.C. coach in good condition, £350.

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DEDFORD (petrol) Duple, 1959, genuine 34,000 miles, interior red, exterior red and cream, heaters, radio, recessed mat, Formica panels, K-type-moulding, price 42,500; this machine has to be seen to be appreciated.

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BEDFORD Vista, high-back seats, very clean, far above average all round, first reasonable offer accepted. Killick and Vincent, Dallington, Heathfield, Sussex, 940-33

1959 S83 Duple Super Vega, 41 scats, red and cream exterior, red moquette seats, excellent condition. £2,550. Also 1958 S83 Duple Super Vega, 41 scats, cream exterior, red modutette seats, excellent condition. £2,000 or £4,250 for the two. Godfrey Abboth Motor Tours, Ltd., 264 Manchester Rd., West Timberley. Cheshire. Phone, Sale S946 or 5025.

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1957 SB3 BEDFORD Duple 41-scatter luxury coach, red and cream exterior colours with red interior upholstery, etc., heater, wheel trims, excellent order through-

1952 BEDFORD 33-35-scater Duple, blue exterior certificate of fitness to 1962, best offer secures.

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TOWER HILL GARAGE, A40, Witney, Oxon. Phone

Used Passenger Vehicles (contd.)

1961 BEDFORD 41-scater Duple diesel, £3,350; 1959 Bedford 41-scater Plaston diesel, £2,950; 1959 Bedford 29-scater Duple Vista, £1,350, CONWAY HUNT, LTD., Brox Rd., Ottershaw, Phone. Ottershaw, 461, day and night,

TOM BYATT (STOKE), LID.,

VAUXHALL AND BEDFORD MAIN DEALERS. 1960 BEDFORD petrol 8-ft. Duple Super Vegas condition, one owner, certificate of fitness [967; choice of two, £2,950.

TOM BYATT (STOKE), LTD.,

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940-352

DUPLE Vega. 1953, BEDFORD, petrol. 25-seater, maroon and grey, certificate of fitness to 1965, £1,200. FLOREYS, 4 West End, Witney, Oxon. Phone \$23. 942-6113

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WANTED, two 1959-61 BEDFORD Duple 41-scatter coaches with roof quarter lights. Full details to G. Townsend, 27 Dudlington Rd., Clapton, London, E.S. 940-6075

1950 BEDFORD Vista wanted. Box CM396. care of "The Commercial Motor." 940-213

COMMER

1956 COMMER TS3 41-seater Duple, new engine,
KINGSTON LUXURY COACHES, LTD., 43 Thames
K, Kingston, Phone, Kingston 1155.

DON EVERALL (COMMERCIAL VEHICLES). LTD.

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to your instructions and delivered for £3,300 each; choice 1959 modified suspension, a brakes, heaters, etc., as above, three only £2,900 each.

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1957 derop-sided body, in first-class order, £850.
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L EYLAND Royal Tiger coaches, 1951, 39-seater, in very good condition, price \$950 each.

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DENNIS Lancet 35-seater half-cab. 1947, certificate of DENNIS Lancet 35-seater half-cab, 1949, certificate of DENNIS Lancet 35-seater half-cab, 1949, certificate of hitness to 1963.

BEDFORD Vistas, 29-seaters, certificates of fitness, Choice of three from £500.

REASONABLE offer accepted for any of the above.

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1951, September, BEDFORD petrol 33-seater, red moquette, Super Vega, exterior black-white, registration AEC 779, E850.

1950, February, BEDFORD 29-seater Vista, blue SRF 352, 4525.

1951, January, MAUDSLAY, A.E.C. 7.7 oil engine.
33-scater Belibouse Hartwell, blue moquette exterior ivory-blue, registration No. NBH 910, £295.

1951, August. BEDFORD petrol 35-seater, red No. MLC 583, 4795.

1953, July, BEDFORD diesel 35-seater Duple Supertration No. NXW 970, 61,250.

1954. April. BEDFORD 38-seater, petrol, red moquette, Super Vega, exterior cream-red, registration No. KNV 1, £1,550.

1955, March, BEDFORD petrol 36-seater Duple Rey, registration No. TUR 310, £1,750.

1955, April, BE il. BEDFORD petrol 38-seater Duple Super a blue moquette, exterior blue-cream, 999 CMG, £1.875.

1956. May, BE BEDFORD 41-seater petrol Burlingham moquette, exterior green, registration

BEDFORD petrol 41-seater Duple Super a red moquette, exterior maroon-cream MHM 40, £2,395. 1956. May, BEDFORD petrol 41-seater Duple Superegistration No. KHV 494, £2,250.

1958, May, BEDFORD Duple 41-seater Super Vega, petrol, red moquette, exterior blue-cream, registration No. UUF 728, £2,695. 1957, May.

1959, April, BEDFORD diesel 41-scater Super Vega 7 ft. 6in wide, red moquette, exterior cream red, registration No. 444 NNO, £2,950.

1959, March. BEDFORD Leyland diesel-engines registration No. WLO 688, £3,150. 1959 April, BEDFORD petrol 41-seater Duple Super tion No. UCE 395, 42.850.

1959, July, BEI 1959, red-grey 888, £2,90 BEDFORD diesel 41-seater Super Vega grey moquette, exterior blue, registration

1960, April, BEDFORD 41-seater diesel Super Vega, No. WPY 72, 63,195.

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1951 DENNIS diesel, Reading body, full-front of fitness June, 1965, 5-speed box, extras, bargain £550.

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1950 COMMER Harrington 30-scater, a very attrac-tive vehicle, certificate of fitness 1962, £295.

£2,56.

1951 A.E.C. 33-seater, certificate of fitness, engine very sound throughout, £695.

1952 BEDFORD Super Vega 33-seater, in above average condition, real bargain, £750.

1951 BEDFORD 35-seater Duple, much above average, certificate of fitness 1966, £1,100.

1959 BEDFORD Duple 41-seater, full luxury, radio,

1959, July, BEDFORD diesel SBI Vega, 41, heaters, radio, P.A., Formica quarter lights, wheel discs, step mat, specially finished interior, certified July,

1957 hauled, nice condition, £285, and the properties of the prope

1956 MORRIS Kenex diesel 13-14-scater coach, now being recervised and fitted new diesel engine, ideal for small operator, £895.

1960 TROJAN rural bus, fitted heater, 12,000 miles describe as an absolute bargain, £795.

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Used Passenger Vehicles (contd.)

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IMMEDIATE DELIVERY:-NEW FORD Thames 41-scater coaches with bodies by Duple, Burlingham, Harrington and Plaxton. NEW LEYLAND PD3-2 72-scater front-entrance double-decker bus.

1961, day, FORD Thames Duple 41-seater de luxe ream exterior, red interior, Formica panel ling, public address, quarter lights, 2-speed axie and modified brakes, mileage 16,900, certificate of fitnes 1968, 991 UCI E 3,350

1968, 991 UCT £3,350.

1960 BebFORD Burlingham 41-scater, diesel, paint cream moquette, TKU 770, £3,250.

1960 FORD Thames Duple 41-scater maroon and cream, red moquette, YUS 773, £3,000.

1959 BEDFORD Duple Super Vega petrol 41-scater diuse coachwork, cream exterior, red interior, heater and public address, certificate of filmess 176.66,

1959 BEDFORD Duple Super Vega petrol 41-scater lawary conclawork, cream exterior, red interior beater and public address, certificate of fitness 18.6.66 sol TI, £2.750.

1959 BEDFORD SB8 Duple 41-seater with Leyland engine, blue and cream paint, blue moquette certificate of fitness 1965 TVA 128, £2,750.

1959 BEDFORD Super Vega 41-seater, petrol 1959 FORD Thames Plaxton 41-seater, paint cream red moquette, quarter lights, reg. No. 4 HLG

1959 FORD Thames Plaxion 41-seater, cream exterior, red interior, quarter lights, certificate of fitness 1966, registered No. 6 HLG, £2,850.

1958 COMMER TS3 Duple 41-seater, paint rec and cream, red moquette, top sliding windows

1957 ALBION Aberdonian Plaxton 41-scater, red and cream paint, green moquette, DEK 43. 1955 BEDFORD Duple 36-scater, diesel, paint red and cream, blue moquette, GSD 241, £1,650. 1955 cream paint, blue moquette, certificate of fitness 1965 HCS 817 £950.

1954 BEDFORD Plaxton 35-scater, petrol, paint moquette, SUM 662, £1.550.

WE CAN ARRANGE DEMONSTRATIONS

OF FORD THAMES COACHES WITH BODIES BY DUPLE, BURLINGHAM, PLAXTON, HARRINGTON

MILLBURN MOTORS. LTD., MILLBURN STREET, GLASGOW, N.I.

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WE ARE NOW TAKING ORDERS FOR

1962 MODEL COACHES.

1959 FORD Harrington 41-seater, heaters, etc.

1959 BEDFORD Plaxton 41-seater, heaters, etc. 1958 BEDFORD Plaxton 41-seater, heaters, etc.

1958 BEDFORD Duple 41-seater, heaters, etc.

1956 BEDFORD Plaxton 41-scater, heaters, etc.

1955 COMMER TS3 38-seater, £750.

1956 BEDFORD Burlingham 41-seater, quarter lights tubular racks, heaters, etc.

LARGE selection of service buses, single and dou decker with good certificates of fitness.

AFTER 8 P.M. FHONE. SANDBACH 881 OR SWINTON 2932. 940

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LES GLEAVE, LTD.,

1954 BEDFORD Duple 38-seater diesel, £1,100.

1954 SEDDON, 41-scater Plaxton, heaters, etc.

1951 BEDFORD, 33-seater Plaxton, radio and

1950 LEYLAND PS2. Burlingham body, heaters good, certificate of fitness, choice of three

VARIOUS petrol and diesel coaches available for wor contract, some with good certificates of fitne cheap to clear.

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KNIGHTTHORPE ROAD.

1950 A.E.C. Mk. III (7.7) Burlingham full-front and black, certified March, 1964, £685.

black, certified April, 1964, 1885.

1952 BEDFORD Duple Super Vega 35-seater, luxury
and red, width 8 ft., certified May, 1962, £1,285.

1951 A.E.C. Mk. IV Burlingham Scagull 39-seater,
arey and red, engine fully reconditioned by A.E.C., certilikely and the state of the state

1953 FODEN (Gardner) ACB 41-seater luxury coach, black certified April, 1964, E885.

1955 BeFFORD Burlingham Seagull 36-seater, red and cream, certified Forward, heaters, etc., exterior red and cream, certified February, 1965, £1,785.

LEVLAND Comet Duple full-front 36-seater, per season and fawn, certified 1965, £1,885.

1957 BEDFORD Duple Super Vega 41-seater, red-ream-red, certified April, 1964, note the price, £2,485.

1958 BEDFORD (petrol) Duple Super Vega seater, red interior, with heaters, exterior 2-to blue, certified March. 1965, £2,650.

reliefs, nominal mileage, very attractive, £3,200, 1959 BEDFORD (diesel) Harrington Crusader 41-grey-green and maroon, certified February, 1966, £2,950, 1959 BEDFORD (petrol) Duple Super Vega 41-green and maroon, certified February, 1966, £2,850, cream and maroon, certified March, 1966, £2,850,

ALF MOSELEY. LTD..
PUBLIC SERVICE VEHICLE SPECIALISTS. 1960 FORD Thames Duple 41-seater red interior, reliefs, nominal mileage, very attractive, £3,200.

Phone, Manchester Blackfriars 7577 and Blackfriars 1048, 940-188

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VERY special left-hand-drive Continental 33-ft-long super luxury underfloor-engined SENTINEL coach, titled with air-conditioning system throughout, ideal for export or overseas tours, air brakes, overdrive top gears, good tyres, etc., £750, well worth £1,750, one and one ALL the above vehicles carry our three months' guarantee and are fitted with good serviceable or new

BRISTOL 35-scater service buses, all immacula throughout, Gardner 5LW, A.E.C. 7.7 and Brist AVW engines, a very super fleet of vehicles, choice

1949 A.E.C. 35-seater service buses, all in super condition bodily and mechanically, 7.7 and 9.6 diesels, choice of eight, £295 each.

1950 A.E.C. 33-seater dual-purpose bus and coach, all definitely unmarked and certified 1965, £450

of 10, £375 each.

1949 A.E.C. high-bridge double-deckers, all with serviceable machines, £325 each.

1944 5-6 GUY low-bridge double-deckers, all with 1952 all-metal bodies and Gardner SLW and OLW engines, choice of six, £275 each.

1948-49 LEYLAND PDI low-bridge double-deckers, these machines must be seen to be believed for their excellent, clean, sound condition, all certified, choice

1949 BRISTOL low-bridge double-deckers in almost new condition, the bodies and seats are unmarked throughout, all certified, £395 each, choice

1952 LEYLAND full-front 35-seater Beadle coaches certified 1964, immaculate condition through

1954 A.E.C. Mark IV underfloor-engined full luxury 39-scater coach, certified 1964, choice of four,

1954 LEYLAND Tiger Club 41-seater full luxury and positively as new throughout, certified 1964, £1,650.
1954 BEDFORD 37-seater Duple full luxury cosch. immaculate throughout, £759.

BUSES AND COACHES ACTUALLY IN STOCK AND READY FOR MMEDIATE CERVICE.

200

FRANK COWLEY.

THE MILLBURN ORGANIZATION. GLASGOW. PRESTON. CARLISLE. 940-450

NEXT SALE THURSDAY, FEBRUARY 1, 1962.

A HAPPY AND PROSPEROUS NEW YEAR N.B.-NO MOTOR AUCTION SALE IN JANUARY.

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Used Passenger Vehicles (contd.)

FARNHAM TRADING ESTATE, FARNHAM, SURREY. nd 3227, 8 a.m. to 6 p.m After 6 p.m., Farnham 4481,

WE are now taking orders for 1962 model coaches, delivery from December-January onwards. Duple: Plaxton: Burlingham 41-seater bodies on new Bedford petrol- and diesel-engined chassis; 2-speed axle optional: also new Bedford 29-seater models.

MMEDIATE delivery of the following high-c

1959 BEDFORD SBI diesel, 41-seater Duple, many green exterior, one owner, certificate of fitness January.

1961 FORD Thames Trader, radio, red interior, grey-pink exterior, heater, glass roof quarters, 41-seater Duple, 2-speed axle, exceptional condition, as new, certificate of fitness January, 1968, £3,650.

1959 BEDFORD Super Vega, petrol, Duple 41-scater, glass roof quarters, heaters, £2,975.

1954 blue interior trim, exterior blue and cream, certificate of fitness 1964, £975.

1957 BEDFORD, fitted new Bedford 300-cu.-in. diesel engine, Duple 41-seater Super Vega body, red

1958 BEDFORD, petrol, 41-seater Duple Super Vega body, red interior, very clean, £2.475. 1957 BEDFORD, petrol, 37-seater, blue interior, blue-grey exterior, one owner only, above average

1957 DENNIS Lancet, underfloor engine, chissis and chief. Burlingham body, blue moquette to seats exterior blue and cream, certificate of fitness 1964, £2,500

1956 BEDFORD, petrol engine, Duple 41-seater, re-work only, red-cream exterior, certificate of fitness May 1966, choice of three from £1,975.

1996, endice of inree from £1,975.

1955 Scatter, red interior, margon exterior, ex-Show model, certificate of lines May, 1965, £2,000.

1954 BEDFORD Years 36-seater, red interior, red interior, exception of the control of the cont

1952 DENNIS J10A chassis, full-fronted Strachan fitness 1962, 6256

1951 5)-litre, 2-speed axle, red interior, £675.
1951 5)-litre, 2-speed axle, red interior, £675.
1950 red interior, certificate of fitness 1963, £295.
1954 BEDFORD Duple 38-scater, cream-blue exterior, derincted of fitness 1963, £295.
1964, choice of three from £1,500.

1959 BEDFORD Duple 41-seater, tvory-green exterior per lune 1969 grey-red interior, heater, certificate of film

1958 BEDFORD Duple 41-seater, yellow-broadiness January, 1965, choice of three, all in excellegondation, 62,975.

1955 A.E.C. Reliance chassis, 41-seater Ventes body glass roof quarters, interior red moduette exterior fawn and brown, certificate of fitness 1965, £2,500

Control taws and orown, certificate of fiftees 1905, 22,500.

Hypervalue in speedy crash repairs, all trimming and bodybuild-manufactures of the speed of the spe WE should like to take this opportunity to wish you a Merry Christmas and a Happy New Year.

E. J. BAKER AND CO. (DORKING). LTD.

COACH SPECIALISTS OF THE SOUTH, FARNHAM, SURREY. 9.

Saville Motor Sales, LTD.

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NEW AND USED BEDFORD COACHES. ALL THESE VEHICLES ARE IMMACULATE AND WELL RECOMMENDED.

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1958 BEDFORD Duple 41-scater, petrol, certificate of fitness 1965; cream, choice of two.
1957 of fitness 1964, ivory-blue.

1956 BEDFORD Plaxton 41-seater, petrol, certificate of fitness 1966, cream-blue. 1955 BEDFORD Planton 36-scater, petrol, certificate of fitness 1965, ivory-blue.

1953 of fitness 1965, ivory-blue.

1955 cate of fitness 1965, black.

1955 de BEFFORD Duple 36-seater, petrol, certificate of fitness 1965, black.

1955 de BEFFORD Duple 36-seater, petrol, certificate of fitness 1965, blue-cream.

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1953 deset, certificate of fitness 1965, cream-blue.

1952 de BEFFORD Duple 35-seater, petrol, certificate of fitness 1965, ream-blue.

1953 deset, certificate of fitness 1965, cream-blue.

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1952 BEDFORD Duple 33-seater, petrol. certificate of fitness 1962 margon-cream.

1952 BEDFORD Plaxton 33-scater, petrol, certificate of fitness 1962, orange-cream.

1952 BEDFORD Duple 28-scaler, petrol. certificate of fitness 1962, green-cream. 1955 COMMER Plaxton 41-seater, diesel, certificate of fitness 1965, maroon-cream.

1955 COMMER Duple 41-seater, diesel, certificate of fitness 1965, red-cream.

1954 COMMER Plaxion 39-seater, diesel, certificate of fitness 1963, cream-ivory. 1950 COMMER Plaxton 13-seater, petrol, certificate of filness 1963, blue-grey.

1955 LEYLAND Duple 36-seater, diesel, certificate of fitness 1965, red-cream.

1951 LEYLAND Royal Tiger Windover 38-scater, diesel, certificate of fitness 1964, blue-cream. 1950 LEYLAND Harrington 37-seater, diesel, certifi-

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1955 2-speed axle, heaters, etc.
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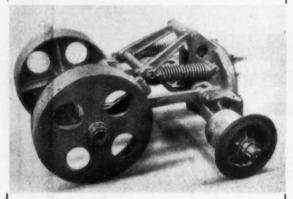
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